

FIG. XLV. VALUE OF NEW CONSTRUCTION: 1960 TO 1965

[See table 1092]

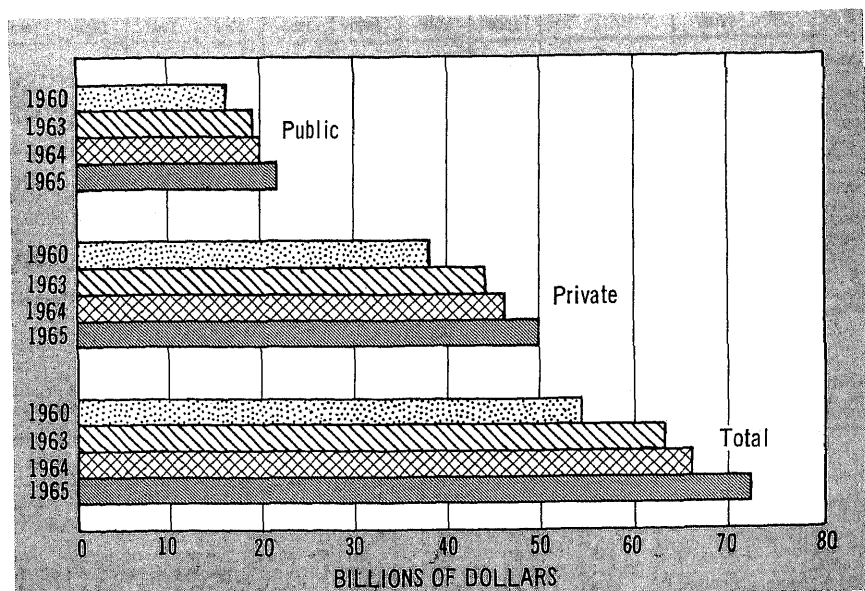
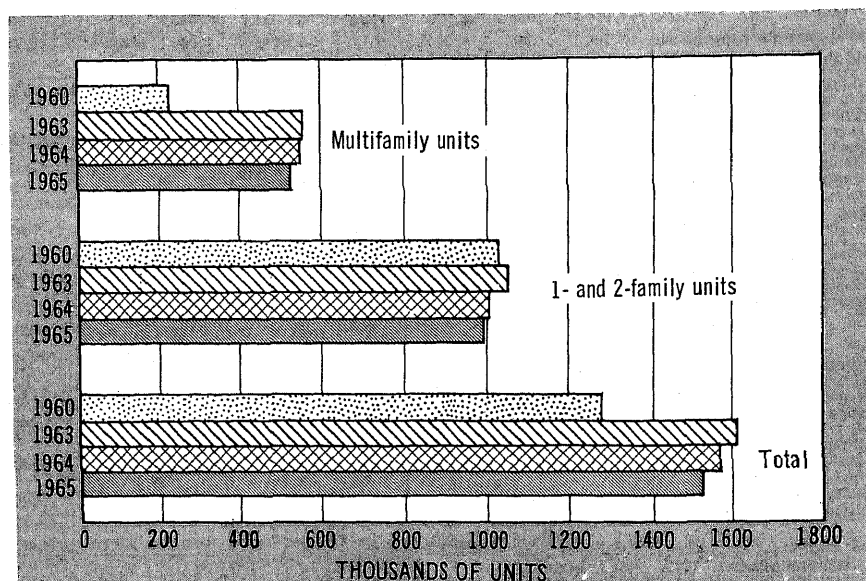


FIG. XLVI. NEW NONFARM HOUSING UNITS STARTED: 1960 TO 1965

[See table 1109]



Source of figs. XLV and XLVI: Dept. of Commerce, Bureau of the Census.

## Section 28

### Construction and Housing

This section presents various measures of construction activity and costs; housing units; housing values, facilities, and structural characteristics; and residential financing.

The principal sources of these data are the monthly *Construction Reports* series (see below) and reports of the decennial Census of Housing published by the Bureau of the Census; and the monthly *Construction Review*, published by the Business and Defense Services Administration. Other sources, specializing in particular types of construction or housing statistics, include the monthly *Dodge Construction Contract Statistics Services* of F. W. Dodge Company, a division of McGraw-Hill, Inc., which presents State data on construction contracts; the *Engineering News-Record*, issued weekly by McGraw-Hill, Inc., which contains figures on construction costs; the *Annual Report* of the Department of Housing and Urban Development which presents housing statistics for all its operating programs; and the *Annual Report* of the Federal Home Loan Bank Board, which presents home mortgage data. Monthly data on characteristics of vacant housing units are collected by the Bureau of the Census and presented quarterly in its *Current Housing Reports*.

**Construction.**—Monthly statistics on the start of construction of total, single-family, and multifamily housing units in housekeeping residential buildings are published in *Construction Reports: Housing Starts*. Quarterly information is presented on number of units in multifamily buildings by number of floors and presence of elevators in structures. The statistics are derived from monthly sample surveys which measure the relationship between housing units authorized by permits and the number of units on which construction started. Housing starts in areas which do not issue permits are measured directly by a monthly survey in a sample of such areas.

Monthly statistics supplemented by additional quarterly data on the number of 1-family homes sold and for sale, compiled by the Bureau of the Census under the sponsorship of the Department of Housing and Urban Development, are published in *Construction Reports: Housing Sales*. Statistics are based on samples of homes authorized by building permits and of homes started in areas without permit systems.

Monthly estimates of the value of construction put in place appear in the Bureau of the Census series, *Construction Reports: Construction Activity*. Estimates for private residential construction are based primarily on housing starts statistics and on construction cost data derived largely from building permit records. Estimates for nonresidential buildings such as stores, office buildings, and factories are compiled from a Bureau of the Census survey of those new construction projects in the 37 Eastern States and the District of Columbia identified by the F. W. Dodge Company, supplemented by building permit data covering the 13 Western States. Public utility construction estimates are derived from data compiled by the Interstate Commerce Commission and other Federal regulatory agencies, and by private associations and organizations such as the American Gas Association, the Edison Electric Institute, and the American Telephone and Telegraph Company.

Statistics for State and local governmental construction are derived from expenditure data obtained quarterly by the Bureau of the Census from State and local government bodies. Estimates of federally financed construction, and of the Federal component of federally aided construction programs, are derived by the Bureau of the Census from reports of the responsible Federal agencies.

Monthly statistics on the number of housing units authorized by building permits, based on reports provided monthly by over 3,000 relatively active permit-issuing places and annually by the 12,000 known permit-issuing jurisdictions, appear in *Construction Reports: Building Permits*.

Annual statistics on expenditures for residential additions, alterations, repairs, maintenance, and replacements are published in *Construction Reports: Residential Alterations and Repairs*. (This survey, suspended in 1964, was resumed in 1965.) Statistics are based on expenditures reported by owners and renters of a sample of single and multifamily properties, including nonfarm and farm, privately and publicly owned, and occupied and vacant housing units.

**Housing.**—From 1850 through 1930, the Bureau of the Census collected some housing data in conjunction with Censuses of Population and Agriculture. Beginning in 1940, full-fledged Censuses of Housing have been taken at 10-year intervals. The most recent census, taken as of April 1, 1960, provided data on occupancy and structural characteristics, condition, plumbing facilities, equipment, fuels, and financing. It also included data on components of inventory change (new construction, conversion, merger, demolition, and other gains and losses) for 1950–60 and 1957–60.

Housing data were collected by the Bureau of the Census in sample surveys in October 1944, November 1945, April 1947, and May 1948 as part of the Current Population Survey (see p. 1). In 1955, the Bureau began a monthly vacancy survey, results of which are issued on a quarterly basis. A National Housing Inventory, conducted in 1956, provided measurements of the housing supply for the nation as a whole and for selected metropolitan areas, and information on components of change during the 1950–56 period.

**Housing units.**—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters, that is, the occupants do not live and eat with any other persons in the structure, and there is either (1) direct access from the outside or through a common hall, or (2) a kitchen or cooking equipment for the exclusive use of the occupants. Transient accommodations (tourist courts, hotels, etc.), barracks for workers (railroad, construction, etc.), and institutional-type quarters are not included in the housing-unit inventory.

In the 1950 Census, the unit of enumeration was the dwelling unit. Although the definition of housing unit in 1960 is essentially similar to that of dwelling unit in 1950, the housing unit definition was designed to encompass all separate living quarters, whereas the dwelling unit definition did not. The main difference was in the treatment of 1-room quarters. Nevertheless, the change in definition between 1950 and 1960 had relatively little effect on comparability of the data at national and State levels.

**Residential financing.**—As early as 1890, the Bureau of the Census (then Census Division of the Department of the Interior) collected detailed statistics on residential mortgages. As part of the 1920 and 1940 Censuses, mortgage questions were asked of owners who occupied their own homes. In 1950, the census included a separate survey on residential financing, covering nonfarm residential mortgaged properties, both owner and renter. As part of the 1956 National Housing Inventory, data were collected on the financing of owner-occupied nonfarm properties. In 1960, the Residential Finance Survey program of the Census of Housing covered financing of both home owner and rental properties and characteristics of nonmortgaged as well as mortgaged properties.

Data on home mortgages and foreclosures, based largely on reports from major holders, are provided by the Federal Home Loan Bank Board. The Federal Housing Administration compiles, from its records, data on its real estate financial operations, such as volume of mortgages insured, type of lending institution, etc. The Veterans Administration also compiles, from its records, data on amounts and types of loans.

**Urban, rural, and farm-nonfarm residence.**—See section 1, "Population," for 1960 definitions of urban, rural, and farm-nonfarm residence.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

## No. 1092. VALUE OF PRIVATE AND PUBLIC CONSTRUCTION: 1950 to 1965

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed value of equipment which is integral part of structure but not that of machinery, shipbuilding, or land costs. For series beginning 1962, see Department of Commerce, Bureau of the Census, *Construction Report C30-65S*. For 1946 to 1961 see *Construction Report C30-61* (Supplement). For 1915 to 1945, see *Historical Statistics, Colonial Times to 1957*, series N 1-28]

TYPE OF CONSTRUCTION	1950	1955	1960	1961	1962	1963	1964	1965
<b>Total</b> .....	45,630	62,377	73,178	75,224	79,972	83,508	(NA)	(NA)
<b>New construction</b> .....	33,575	46,519	53,941	55,447	59,667	62,968	66,221	71,903
Private .....	26,709	34,804	38,078	38,289	41,798	43,642	45,914	49,899
Residential buildings (nonfarm) .....	18,126	21,877	21,706	21,680	24,292	25,843	26,507	26,689
New housing units .....	15,551	18,242	16,410	16,189	18,638	20,064	20,612	20,765
Additions and alterations .....	2,400	3,296	(1)	(1)	(1)	(1)	(1)	(1)
Nonhousekeeping .....	175	339	865	1,060	1,223	1,341	1,457	1,486
Nonresidential buildings <sup>2</sup> .....	3,904	7,611	10,149	10,734	11,617	11,646	12,998	16,521
Industrial .....	1,062	2,399	2,851	2,780	2,842	2,906	3,372	5,086
Commercial <sup>3</sup> .....	1,415	3,218	4,180	4,674	5,144	4,995	5,406	6,704
Religious .....	409	734	1,013	1,003	1,033	1,001	999	1,222
Educational .....	294	492	566	609	680	678	703	753
Hospital and institutional .....	344	351	605	771	985	1,030	1,301	1,432
Other nonresidential buildings .....	380	417	934	897	933	1,036	1,017	1,324
Farm construction .....	1,522	1,385	1,321	1,300	1,282	1,247	1,221	1,195
Operator dwellings .....	642	532	500	488	482	468	457	445
Other farm construction .....	880	853	821	812	800	779	764	750
Public utilities .....	3,445	3,770	4,621	4,335	4,330	4,596	4,850	5,178
Telephone and telegraph .....	980	805	1,088	980	996	1,128	1,263	1,454
Other public utilities .....	2,605	2,965	3,533	3,355	3,334	3,468	3,587	3,724
Railroads .....	269	321	270	213	201	240	259	270
Electric light and power <sup>4</sup> .....	1,240	1,572	2,026	1,886	1,899	2,020	2,098	2,271
Gas .....	859	922	1,105	1,147	1,031	948	1,064	1,064
Petroleum pipelines <sup>5</sup> .....	237	150	132	109	203	260	166	119
All other private .....	112	161	281	250	277	310	338	416
Public <sup>6</sup> .....	6,866	11,715	15,863	17,148	17,869	19,326	20,307	<sup>7</sup> 21,904
Buildings (excl. military) .....	2,732	4,462	5,511	6,011	6,092	6,449	7,052	7,684
Residential .....	345	266	716	842	938	451	474	464
Industrial .....	224	721	407	472	422	458	400	365
Educational .....	1,133	2,442	2,818	3,052	2,984	3,477	3,790	4,261
Hospital .....	499	300	401	369	397	403	440	496
Other public buildings .....	531	733	1,169	1,276	1,351	1,660	1,948	2,098
Highways and streets .....	2,134	3,852	5,437	5,854	6,365	7,091	7,144	7,539
Military facilities .....	177	1,287	1,366	1,371	1,266	1,227	968	883
Conservation and development .....	942	701	1,175	1,384	1,524	1,690	1,729	2,032
Other public construction .....	881	1,413	2,374	2,528	2,622	2,809	3,414	3,765
Sewer systems .....	383	615	882	914	1,072	947	1,325	1,189
Water supply facilities .....	276	470	605	667	682	882	956	1,281
Miscellaneous public construction .....	222	328	887	947	868	1,040	1,133	1,296
<b>Maintenance and repair</b> <sup>7</sup> .....	12,055	15,858	19,237	19,777	20,305	20,540	(NA)	(NA)

NA Not available.

<sup>1</sup> Not available; estimate included in totals.

<sup>2</sup> Beginning 1962, new series, essentially comparable in level with old series although there are year-to-year differences. See *Construction Report C30-65S*.

<sup>3</sup> Excludes building by privately owned public utilities.

<sup>4</sup> Includes construction with REA funds.

<sup>5</sup> Through 1955, includes local transit.

<sup>6</sup> Beginning 1963, new series for State and local component of public construction. New and old series essentially comparable in level for total but not for most individual categories. See *Construction Report C30-65S*.

<sup>7</sup> Source: Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports, Series C30*, except as noted.

**No. 1093. VALUE OF NEW PRIVATE AND PUBLIC CONSTRUCTION IN 1957-59 PRICES,  
AND INDEX OF PHYSICAL VOLUME: 1950 TO 1965**

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. For description and computation of the various indexes used in the derivation of constant values, see source. Represents value of construction put in place. For series beginning 1962, see Department of Commerce, Bureau of the Census, *Construction Report* C30-65S. For 1946 to 1961 see *Construction Report* C30-61 (Supplement). For 1915 to 1945, see *Historical Statistics, Colonial Times to 1957*, series N 29-54]

TYPE OF CONSTRUCTION	1950	1955	1960	1961	1962	1963	1964	1965
<b>New construction</b> .....	<b>43,576</b>	<b>51,717</b>	<b>52,171</b>	<b>53,087</b>	<b>55,948</b>	<b>57,681</b>	<b>59,153</b>	<b>62,060</b>
<i>Index of physical volume (1957-59=100)</i> .....	<i>85</i>	<i>101</i>	<i>101</i>	<i>103</i>	<i>109</i>	<i>112</i>	<i>115</i>	<i>120</i>
<b>Private</b> .....	<b>34,309</b>	<b>38,394</b>	<b>36,518</b>	<b>36,428</b>	<b>39,056</b>	<b>39,928</b>	<b>40,922</b>	<b>48,145</b>
Residential buildings (nonfarm).....	22,447	23,649	20,824	20,725	22,823	23,791	23,733	23,136
New housing units.....	19,257	19,722	15,747	15,474	17,508	18,465	18,453	17,992
Additions and alterations.....	2,975	3,562	(1)	(1)	(1)	(1)	(1)	(1)
Nonhousekeeping.....	215	365	828	1,014	1,150	1,236	1,305	1,202
Nonresidential buildings <sup>2</sup> .....	5,321	8,668	9,690	10,004	10,558	10,288	11,219	13,884
Industrial.....	1,447	2,807	2,803	2,712	2,732	2,728	3,271	4,510
Commercial <sup>3</sup> .....	1,930	3,623	3,943	4,275	4,555	4,290	4,527	5,450
Religious.....	558	823	958	923	932	875	850	1,013
Educational.....	399	553	535	560	614	592	597	625
Hospital and institutional.....	470	395	569	708	886	900	1,105	1,189
Other nonresidential buildings.....	517	467	882	826	839	903	869	1,097
Farm construction.....	1,909	1,511	1,270	1,248	1,239	1,194	1,167	1,121
Operator dwellings.....	785	573	480	469	463	444	430	415
Other farm construction.....	1,124	938	790	779	776	750	737	706
Public utilities.....	4,470	4,384	4,474	4,226	4,190	4,390	4,525	4,673
Telephone and telegraph.....	574	865	1,059	961	973	1,085	1,186	1,312
Other public utilities.....	3,896	3,519	3,415	3,265	3,217	3,305	3,339	3,361
Railroads.....	363	366	261	211	193	229	245	246
Electric light and power <sup>4</sup> .....	1,879	1,866	1,980	1,876	1,884	1,976	2,008	2,105
Gas.....	1,308	1,110	1,047	1,071	947	854	935	907
Petroleum pipelines <sup>5</sup> .....	346	177	127	107	193	246	151	103
All other private.....	162	182	260	225	246	265	278	331
<b>Public<sup>6</sup></b> .....	<b>9,267</b>	<b>13,323</b>	<b>15,653</b>	<b>16,659</b>	<b>16,892</b>	<b>17,753</b>	<b>18,231</b>	<b>18,915</b>
Buildings (excl. military).....	3,682	5,039	5,237	5,593	5,552	5,684	6,036	6,376
Residential.....	430	288	686	803	882	414	419	402
Industrial.....	304	848	402	461	408	430	364	324
Educational.....	1,543	2,742	2,664	2,813	2,688	3,035	3,224	3,512
Hospital.....	682	338	380	342	357	348	372	411
Other public buildings.....	723	823	1,105	1,174	1,217	1,457	1,657	1,727
Highways and streets.....	2,722	4,396	5,758	6,152	6,447	7,005	7,015	7,082
Military facilities.....	234	1,467	1,336	1,320	1,182	1,113	804	759
Conservation and development.....	1,351	799	1,089	1,255	1,345	1,444	1,428	1,609
Other public construction.....	1,278	1,622	2,233	2,339	2,366	2,507	2,888	3,089
Sewer systems.....	550	702	817	827	948	810	1,094	948
Water supply facilities.....	397	536	563	604	601	754	787	1,018
Miscellaneous public construction.....	331	384	853	908	817	945	1,007	1,123

<sup>1</sup> Not available; estimate included in totals.

<sup>2</sup> Beginning 1962, new series, essentially comparable in level with old series although there are year-to-year differences. See *Construction Report* C30-65S.

<sup>3</sup> Excludes building by privately owned public utilities.

<sup>4</sup> Includes construction with REA funds.

<sup>5</sup> Through 1955, includes local transit.

<sup>6</sup> Beginning 1963, new series for State and local component of public construction. New and old series essentially comparable in level for total but not for most individual categories. See *Construction Report* C30-65S.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C30.

# NO. 1094. VALUE OF NEW CONSTRUCTION, BY TYPE, FOR SELECTED MONTHS: 1964 to 1966

[In millions of dollars]

TYPE OF CONSTRUCTION	1964					1965					1966 (prel.)	
	Apr.	June	Aug.	Oct.	Dec.	Apr.	June	Aug.	Oct.	Dec.	Apr.	June
<b>New construction</b> .....	5,339	6,305	6,301	6,086	5,311	5,634	6,768	6,806	6,754	6,010	6,066	6,936
<b>Private</b> .....	3,711	4,273	4,256	4,174	3,847	3,948	4,647	4,623	4,606	4,381	4,308	4,717
Residential buildings (non-farm) <sup>1</sup> .....	2,188	2,570	2,492	2,311	2,076	2,134	2,630	2,627	2,370	2,138	2,191	2,556
New housing units.....	1,613	1,882	1,976	1,842	1,670	1,559	1,935	2,009	1,897	1,723	1,620	1,870
Nonhousekeeping.....	114	124	132	127	114	114	131	134	131	123	110	122
Nonresidential buildings <sup>2</sup> .....	1,037	1,135	1,180	1,261	1,202	1,282	1,423	1,488	1,605	1,635	1,546	1,544
Industrial.....	281	302	325	333	365	376	440	438	478	575	565	(NA)
Commercial.....	414	474	507	542	506	520	560	615	678	640	555	(NA)
Religious.....	79	88	91	101	89	105	107	108	121	105	90	(NA)
Educational.....	55	70	66	65	56	52	62	83	73	68	79	(NA)
Hospital and institutional.....	98	108	123	147	113	123	120	111	123	118	120	(NA)
Farm construction.....	93	104	116	107	97	92	102	112	104	95	91	102
Public utilities.....	367	428	433	469	447	409	456	465	487	466	431	478
Telephone and telegraph.....	96	118	101	122	126	120	131	128	131	137	128	133
Other public utilities.....	271	310	332	347	321	289	325	337	356	329	303	345
All other private.....	26	36	35	26	25	31	36	31	40	47	49	37
<b>Public</b> <sup>3</sup> .....	1,628	2,032	2,045	1,912	1,464	1,686	2,121	2,183	2,148	1,629	1,758	2,219
Buildings (excl. military).....	618	696	639	605	551	612	708	703	728	637	678	796
Residential.....	37	40	43	46	35	30	40	45	50	42	41	48
Industrial.....	33	41	30	37	32	37	34	27	34	26	36	38
Educational.....	320	369	368	309	282	351	397	399	390	348	367	436
Hospital.....	38	39	39	38	36	46	44	43	42	41	44	46
Other public buildings.....	190	207	159	175	166	148	193	189	212	180	190	228
Highways and streets.....	530	759	820	719	434	553	778	851	799	468	538	751
Military facilities.....	72	79	93	108	63	66	83	86	82	63	66	(NA)
Conservation and development.....	126	176	160	174	139	151	207	191	201	170	167	(NA)
Other public construction.....	282	322	333	306	277	304	345	352	338	291	309	372
Sewer systems.....	107	133	135	110	92	100	106	105	107	95	106	127
Water supply facilities.....	94	83	82	84	88	91	127	138	108	101	114	122
Miscellaneous public construction.....	81	106	116	112	97	113	112	109	123	95	89	123

NA Not available. <sup>1</sup> Includes estimates for additions and alterations.<sup>2</sup> New series, which began July 1962; see *Construction Report* C30-658. Total includes estimates for types of buildings not shown separately.<sup>3</sup> See footnote 6, table 1093.Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C30.

# NO. 1095. BUILDING PERMITS—VALUATION OF PRIVATE CONSTRUCTION AUTHORIZED: 1960 to 1965

[In millions of dollars. Covers private building construction authorized in 3,014 permit-issuing places]

TYPE OF CONSTRUCTION	1960	1961	1962	1963	1964	1965
<b>Total</b> .....	17,988	18,946	20,577	21,832	22,634	23,647
<b>New housing units</b> .....	10,311	11,027	12,278	13,250	13,106	13,026
In structures with—						
1 unit.....	8,482	8,411	8,666	8,962	8,894	9,134
2 to 4 units.....	463	491	642	895	778	650
5 units or more.....	1,366	2,125	2,970	3,393	3,434	3,243
<b>New nonhousekeeping residential buildings</b> .....	300	403	409	339	432	390
<b>New nonresidential buildings</b> .....	5,478	5,544	5,881	6,058	6,827	7,814
Industrial buildings.....	932	898	991	1,165	1,425	1,679
Office buildings.....	969	951	1,102	1,128	1,080	1,478
Service stations and repair garages.....	114	132	131	140	151	178
Stores and other mercantile buildings.....	1,070	1,142	1,213	1,127	1,357	1,641
Religious buildings.....	444	447	473	437	521	504
Educational buildings.....	437	518	507	546	593	626
Hospitals and other institutional buildings.....	337	443	530	608	670	740
Amusement buildings.....	193	238	162	151	145	159
Residential garages.....	173	161	172	186	185	179
All other nonresidential buildings.....	810	615	600	569	702	630
<b>Additions and alterations</b> .....	1,899	1,971	2,009	2,185	2,269	2,417

Source: Dept. of Commerce, Bureau of the Census. In Dept. of Commerce, Business and Defense Services Administration, *Construction Review*.

# **No. 1096. VALUE OF NEW PUBLIC CONSTRUCTION, BY SOURCE OF FUNDS, OWNERSHIP, AND TYPE: 1950 TO 1965**

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. For complete series from 1946, see Department of Commerce, Bureau of the Census, *Construction Report* C30-66S. For 1915 to 1945 source of funds totals see *Historical Statistics, Colonial Times to 1967*, Series N55-58]

ITEM	1950	1955	1960	1961	1962	1963	1964	1965
<b>New public construction</b>	<b>6,866</b>	<b>11,715</b>	<b>15,863</b>	<b>17,148</b>	<b>17,869</b>	<b>19,326</b>	<b>20,307</b>	<b>21,904</b>
Federal funds	2,078	3,508	5,889	6,305	6,469	7,120	7,311	7,087
Direct Federal	1,024	2,769	3,622	3,879	3,913	3,970	3,822	3,885
Federal grants-in-aid <sup>1</sup>	454	739	2,267	2,426	2,556	3,150	3,489	3,202
State and local funds	4,788	8,207	9,974	10,843	11,400	12,206	12,996	14,817
Federally owned	1,624	2,769	3,622	3,879	3,913	3,970	3,822	3,885
Buildings (excl. military)	514	804	1,024	1,097	1,091	1,141	1,250	1,285
Residential	15	2	288	290	201	57	12	11
Industrial	224	721	407	472	422	458	400	365
Educational	-	6	20	28	29	26	24	14
Hospital	146	22	56	55	55	66	73	94
Other Federal buildings	129	53	253	252	384	534	741	801
Highways and streets	45	70	136	134	160	190	184	168
Military facilities	177	1,287	1,366	1,371	1,266	1,227	968	883
Conservation and development	881	598	1,005	1,200	1,297	1,333	1,360	1,502
Miscellaneous Federal construction	7	10	91	77	90	79	51	47
State and locally owned <sup>2</sup>	5,242	8,946	12,241	13,269	13,956	15,356	16,485	18,019
Buildings (excl. military)	2,218	3,658	4,487	4,914	5,001	5,308	5,802	6,599
Residential	330	264	428	552	737	394	462	453
Educational	1,133	2,436	2,798	3,024	2,955	3,451	3,786	4,247
Hospital	353	278	345	314	342	337	367	402
Other State and local buildings	402	680	916	1,024	987	1,126	1,207	1,297
Highways and streets	2,089	3,782	5,301	5,720	6,205	6,901	6,980	7,871
Conservation and development	61	103	170	184	227	357	390	530
Other State and local construction	874	1,403	2,283	2,451	2,523	2,790	3,363	3,719
Sewer systems	383	615	882	914	1,072	947	1,325	1,189
Water supply facilities	276	470	605	667	682	882	956	1,281
Miscellaneous State and local construction	215	318	796	870	769	961	1,082	1,249

- Represents zero.

<sup>1</sup> Construction programs currently receiving Federal grants-in-aid cover highways, schools, hospitals, airports, and miscellaneous community facilities. <sup>2</sup> Beginning 1963, new series; see footnote 6, table 1093.

Source: Dept. of Commerce, Business and Defense Services Administration, *Construction Review*, and Bureau of the Census, *Construction Reports*, Series C30.

# **No. 1097. EXPENDITURES FOR RESIDENTIAL UPKEEP AND IMPROVEMENTS, BY TENURE AND SIZE OF PROPERTY: 1963**

[In millions of dollars, except averages. Based on sample and subject to sampling variability. See source for definitions, coverage, and methodology]

TYPE OF EXPENDITURE	Total, all properties	OWNER OCCUPANTS OF PROPERTIES WITH 1 TO 4 UNITS			Nonresident owners, and owners of properties with 5 or more housing units	Renters
		Total	1 housing unit	2 to 4 housing units		
<b>Total</b>	<b>11,733</b>	<b>7,852</b>	<b>6,760</b>	<b>1,092</b>	<b>3,555</b>	<b>326</b>
Average expenditure per property owner	(NA)	233	224	312	(NA)	(NA)
Upkeep <sup>1</sup>	5,187	2,875	2,401	474	2,135	177
Heating and central air conditioning	298	188	148	40	103	7
Plumbing	697	341	279	62	338	18
Roofing	322	183	155	28	132	7
Flooring	220	175	148	27	34	11
Painting	2,315	1,312	1,119	193	896	107
Other	1,335	676	552	124	632	27
Improvements	6,546	4,977	4,359	618	1,420	149
Additions to residential structure	1,172	878	785	93	264	30
Additions and alterations on property outside residential structure	1,131	927	886	41	197	7
Alterations within residential structure	2,500	1,885	1,585	300	539	76
Heating and central air conditioning	150	125	120	5	23	2
Plumbing	173	111	106	5	55	7
Remodeling	503	410	305	105	91	2
Other	1,674	1,239	1,054	185	370	65
Replacements	1,743	1,287	1,103	184	420	36
Heating and central air conditioning	405	277	237	40	110	18
Plumbing	402	317	257	60	76	9
Roofing	359	243	222	21	111	5
Other	577	450	387	63	123	4

NA Not available. <sup>1</sup> Represents maintenance and repairs.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C50-9.

# No. 1098. COST INDEXES FOR CONSTRUCTION AND SELECTED COMPONENTS OF CONSTRUCTION: 1946 TO 1965

[1957-59=100. Excludes Alaska and Hawaii, except as noted. Indexes of certain of these firms are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1957*, series N 85-102, for construction cost indexes on a 1947-49 base]

ITEM	1946	1950	1955	1960	1964	1965
Indexes of building materials prices and union wage scales:						
Wholesale prices of building materials <sup>1</sup> .....	52.2	83.0	95.1	100.5	99.6	100.8
Union hourly wage scales in the building trades <sup>2</sup> .....	49.5	68.0	86.8	109.0	126.2	131.4
Construction cost indexes:						
Department of Commerce: Composite <sup>3</sup> .....	56	77	90	103	112	116
Bureau of Public Roads: Highways <sup>4</sup> .....	71.1	78.3	87.3	94.1	102.0	105.9
American Appraisal Company: Building construction <sup>5</sup> .....	48	73	89	106	117	121
Associated General Contractors of America: General construction <sup>6</sup> .....	52	71	88	107	119	123
E. H. Boeckh and Associates: <sup>7</sup>						
Small residential structures: Composite.....	57.4	80.3	92.4	104.2	111.6	115.2
Apartments, hotels, and office buildings: Composite.....	54.0	75.8	90.4	105.0	114.6	118.5
Commercial and factory buildings: Composite.....	53.0	74.0	89.5	104.7	113.4	117.2
Engineering News-Record: <sup>8</sup>						
Building construction.....	49.8	71.2	89.0	106.1	116.1	118.9
General construction.....	45.5	67.1	86.8	108.3	123.1	127.8
George A. Fuller Company: Commercial buildings <sup>9</sup> .....	55	72	88	106	121	124
Turner Construction Company: Building construction <sup>10</sup> .....	55	73	85	102	109	113
Whitman Requaardt and Associates (Handy-Whitman Index): <sup>11</sup>						
Public-utility construction:						
Building.....	46	67	83	104	109	111
Gas plant.....	45	65	83	106	114	117
Electric light and power <sup>12</sup> .....	46	66	84	102	103	107

<sup>1</sup> Covers materials either (a) physically incorporated as integral part of a building or (b) normally installed during construction and not removable without seriously impairing building. Excludes consumer durables, such as kitchen ranges, refrigerators, etc. Beginning 1963, applies to Alaska and Hawaii; for treatment in index weights, see text, p. 349. Source: Dept. of Labor, Bureau of Labor Statistics, unpublished data.

<sup>2</sup> Based on minimum wage rates agreed upon through collective bargaining; excludes overtime. As of July 1. Source: Dept. of Labor, Bureau of Labor Statistics, unpublished data.

<sup>3</sup> Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes, both private and government, used for different types of construction.

<sup>4</sup> Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete).

<sup>5</sup> Average for 30 cities of 4 types of buildings: Wood-frame, brick-wood frame, brick-steel frame, and reinforced concrete. Covers materials and labor costs in structural portion of buildings but excludes materials and labor prices for plumbing, heating, lighting, sprinklers, and elevators. Reflects employee-benefit costs, and allows for contractors' overhead and profit.

<sup>6</sup> Covers both building and nonbuilding construction. Wages and materials for 12 cities combined in 40-60 ratio. Wages are for hod carriers and common laborers only. Materials weighted: Sand, gravel, crushed stone, cement, common brick, and lumber, 1 each; hollow tile, ½; and structural and reinforcing steel (together) ½. Excludes taxes and employee-benefit costs.

<sup>7</sup> Average of 20 cities for types shown. Weights based on surveys of actual building costs and vary with different types of structures. Wage rates used for both common and skilled labor. Reflects payment of sales taxes and social security payroll taxes. Unweighted averages from Boeckh series prepared by Dept. of Commerce, Bureau of the Census.

<sup>8</sup> Building construction index computed on basis of hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. General construction index based on same materials components combined with 200 hours of common labor. Not adjusted for changes in materials availability, competitive conditions, efficiency of plant and management, productivity, or related factors.

<sup>9</sup> Composite of 36 major cost elements in 3 commercial-type buildings including structural elements and elevators, wiring, plumbing, heating, and ventilating. Job costs include both skilled and unskilled labor, and series reflects employee-benefit costs. 1965 data represent average of first three quarters.

<sup>10</sup> Eastern cities. Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. Reflects payment of sales taxes and employee-benefit costs.

<sup>11</sup> Based on data covering public utility construction costs (building construction, gas plant construction, and electric light and power construction) for 95 items in 6 geographic regions of the U.S. Job costs include both skilled and common labor. Indexes do not reflect tax payments nor employee-benefit cost. Dept. of Commerce, Bureau of the Census, has converted these series to a 1957-59 base, and combined the various items into a single index.

<sup>12</sup> As derived by Dept. of Commerce, Bureau of the Census; covers steam production plants only; excludes hydraulic plants.

Source: Dept. of Commerce, Bureau of the Census, except as noted. In Dept. of Commerce, Business and Defense Services Administration, *Construction Review*.



## No. 1099. CONSTRUCTION MATERIALS—INDEXES OF WHOLESALE PRICES: 1950 TO 1965

[1957-59=100. For discussion of wholesale price index, see text, p. 349]

COMMODITY	1950	1955	1960	1965	COMMODITY	1950	1955	1960	1965
<b>All construction materials</b> .....	83.0	95.1	100.5	100.8	<b>Metals and products—Continued</b>				
Lumber and wood products:					Enameled iron fixtures	95.6	108.0	104.8	94.0
Softwoods:					Vitreous china fixtures	94.4	98.4	102.5	93.0
Douglas fir.....	97.4	108.1	99.0	102.4	Brass fittings.....	72.8	91.7	103.6	118.7
Southern pine.....	94.1	100.4	100.1	97.2	Heating equipment.....	86.7	95.0	98.1	91.7
Other softwoods.....	89.2	102.6	97.2	97.3	Steam and hot water equipment.....	73.5	89.0	102.9	102.5
Hardwoods.....	93.8	97.9	103.8	111.3	Metal doors, sash, and trim.....	79.0	100.2	95.3	92.0
Millwork.....	87.7	98.4	104.5	107.7	<b>Nonmetallic mineral items:</b>				
Plywood.....	108.4	107.4	97.8	92.3	Plate glass.....	78.1	92.8	96.4	81.4
Softwood.....	121.5	117.7	92.9	86.8	Concrete ingredients.....	77.1	90.2	102.7	103.2
Hardwood.....	96.7	97.9	102.8	98.2	Portland cement.....	72.1	87.7	103.5	101.2
Building paper and board.....	74.9	91.1	101.4	92.9	Concrete products.....	82.4	92.7	102.4	101.5
Prepared paint.....	77.8	89.7	100.7	105.4	Concrete pipe.....	73.4	89.8	104.4	96.4
<b>Metals and products:</b>					Structural clay products.....	71.7	89.3	103.1	105.1
Structural steel shapes.....	62.3	78.2	102.8	105.9	Gypsum products.....	80.0	93.4	101.9	104.0
Reinforcing bars.....	61.0	83.7	102.3	95.0	Asphalt roofing <sup>1</sup> .....	86.5	90.5	91.8	92.9
Black steel pipe, carbon.....	61.1	79.6	99.9	98.4	Insulation materials.....	97.9	103.2	100.7	88.3
Wire nails, 8d common.....	64.1	84.1	98.5	96.8	<b>Linoleum, inlaid.....</b>	77.3	93.7	104.0	105.0
Copper water tubing.....	73.5	106.1	99.6	105.0	Asphalt floor tile.....	92.0	97.4	102.4	108.3
Building wire.....	73.1	103.9	99.1	132.5	Rubber floor tile.....	83.9	94.2	100.5	107.1
Plumbing fixtures and brass fittings.....	84.5	98.0	103.1	104.7					

<sup>1</sup> For 1960 and earlier years, "prepared asphalt roofing."Source: Dept. of Labor, Bureau of Labor Statistics; *Wholesale Prices and Price Indexes*.

## No. 1100. FEDERAL EXPENDITURES FOR PUBLIC WORKS: 1955 TO 1967

[In millions of dollars. For years ending June 30. Includes public works in outlying areas and structures in foreign countries owned by the U.S. Government (e.g., Department of State, foreign service buildings). Excludes nonconstruction costs; includes proposed legislation. From administrative budget funds and trust funds. Comprises direct Federal works, and grants and loans to State and local governments for public works]

FUNCTION	1955	1960	1963	1964	1965	1966 est.	1967 est.
<b>Civil public works</b> .....	1,716	5,011	5,790	6,999	7,521	7,697	7,617
International affairs and finance.....	5	28	19	14	11	12	24
Space research and technology.....	122	54	225	438	531	405	300
Agriculture and agricultural resources.....	43	43	28	64	3	43	47
Natural resources.....	830	1,123	1,552	1,625	1,700	1,850	1,973
Commerce and transportation.....	2,665	3,161	3,298	4,196	4,542	4,279	4,346
Housing and community development.....	-87	21	61	14	68	88	128
Health, labor, and welfare.....	38	131	138	148	181	205	289
Education.....	137	211	195	159	147	204	107
Veterans benefits and services.....	33	60	68	73	84	87	79
General government.....	29	178	206	267	254	314	324
<b>National defense public works</b> .....	2,408	1,835	1,406	1,347	1,366	1,470	1,322
Military public works.....	1,612	1,618	1,152	1,139	1,156	1,290	1,155
Civil defense public works.....	(2)	(2)	3	6	3	5	7
Atomic energy facilities.....	787	218	250	202	206	175	100
Defense production expansion and other.....	8	-1	1	-	-	-	-

- Represents zero.

<sup>1</sup> Principally aeronautics programs. <sup>2</sup> "Civil defense public works" classified in "Civil public works" (Commerce and transportation); expenditures for such public works were less than \$500,000.Source: Executive Office of the President, Bureau of the Budget; *Budget of the United States Government*.

### No. 1101. VALUE OF CONTRACT AWARDS FOR NEW PUBLIC CONSTRUCTION, BY OWNERSHIP AND TYPE OF CONSTRUCTION: 1950 TO 1965

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Includes force-account construction (work done by government agencies' own employees to perform nonmaintenance construction) and major additions and alterations. Federal may exclude some classified projects. State and local represents work under the jurisdiction of State, county, municipal, or other non-Federal governmental units, including projects under Federal-aid programs]

OWNERSHIP AND TYPE OF CONSTRUCTION	1950	1955	1960	1963	1964	1965
<b>All public construction</b> .....	<b>6,576</b>	<b>9,001</b>	<b>12,928</b>	<b>14,245</b>	<b>15,061</b>	<b>16,035</b>
<b>Federally owned</b> .....	<b>1,653</b>	<b>1,556</b>	<b>2,178</b>	<b>1,824</b>	<b>2,151</b>	<b>2,033</b>
Residential building.....	15	61	269	63	90	86
Nonresidential building.....	1,057	886	760	880	1,047	879
Airfields.....	10	157	396	183	298	141
<b>Conservation and development</b> .....	<b>322</b>	<b>272</b>	<b>344</b>	<b>348</b>	<b>343</b>	<b>352</b>
Highway.....	36	59	129	142	116	130
Electric power utilities.....	157	44	164	116	122	321
All other Federally owned.....	58	78	117	91	135	126
<b>State and locally owned</b> .....	<b>4,923</b>	<b>7,445</b>	<b>10,750</b>	<b>12,421</b>	<b>12,911</b>	<b>14,001</b>
Residential building.....	432	210	454	610	651	911
Nonresidential building.....	1,888	2,842	3,670	4,216	4,190	5,082
Highway.....	1,780	2,934	4,626	4,848	5,471	5,479
Sewerage systems.....	358	502	701	1,121	981	910
Water supply facilities.....	228	394	528	586	672	703
Public service enterprises.....	146	378	423	523	443	364
All other State and locally owned.....	92	185	348	519	503	552

Source: Dept. of Commerce, Bureau of the Census. In Dept. of Commerce, Business and Defense Services Administration, *Construction Review*.

### No. 1102. CONSTRUCTION CONTRACTS—VALUE OF CONSTRUCTION AND FLOOR SPACE OF BUILDINGS, BY CLASS OF CONSTRUCTION: 1960 TO 1965

[Value in millions of dollars; floor space in millions of square feet. Excludes Alaska and Hawaii. Includes new structures and alterations to existing structures (both value and floor area), and major alterations to existing structures which affect only valuation, since there is no additional floor area created by an "alteration" project]

CLASS OF CONSTRUCTION	VALUE OF CONSTRUCTION					FLOOR SPACE OF BUILDINGS <sup>1</sup>				
	1960	1962	1963	1964	1965	1960	1962	1963	1964	1965
<b>Total</b> .....	<b>36,318</b>	<b>41,303</b>	<b>45,546</b>	<b>47,330</b>	<b>49,272</b>	<b>2,154</b>	<b>2,414</b>	<b>2,711</b>	<b>2,738</b>	<b>2,843</b>
<b>Nonresidential buildings:</b>										
Commercial <sup>2</sup> .....	3,725	4,216	4,445	4,572	5,457	283	326	347	360	415
Industrial.....	2,114	2,086	2,274	2,970	3,064	178	174	187	239	265
Educational and science.....	3,005	3,060	3,314	3,553	4,164	196	191	197	202	225
Hospital.....	832	1,079	1,485	1,625	1,515	36	49	65	66	60
Public buildings.....	679	877	964	789	842	33	34	43	34	36
Religious.....	789	811	755	814	783	53	53	48	50	45
Social and recreational.....	681	704	648	599	800	44	40	38	35	47
Miscellaneous.....	464	377	493	598	596	31	27	32	36	38
Residential buildings.....	15,105	18,039	20,502	20,564	21,248	1,300	1,520	1,753	1,714	1,711
Nonbuilding construction.....	8,972	10,255	10,667	11,244	10,805	(X)	(X)	(X)	(X)	(X)

X. Not applicable.

<sup>1</sup> Excludes floor space of public works and utilities, data for which are not available.

<sup>2</sup> Includes nonindustrial warehouses.

Source: F. W. Dodge Company, a division of McGraw-Hill, Inc., New York, N.Y. In *Dodge Construction Contract Statistics Service*.

# No. 1103. VALUE OF CONSTRUCTION CONTRACTS, 1950 TO 1965, AND BY TYPE OF VALUATION, 1965, BY STATES

[In millions of dollars. See headnote, table 1102. Represents value of construction in States in which work was actually done. Beginning 1960, shown on revised basis; therefore, not comparable with prior years]

STATE	1950	1955	1960	1963	1964	1965			
						Total	Non-residential	Residential	Non-building
<b>Total</b> <sup>1</sup>	<b>14,501</b>	<b>23,745</b>	<b>36,318</b>	<b>45,546</b>	<b>47,299</b>	<b>49,272</b>	<b>17,219</b>	<b>21,248</b>	<b>10,805</b>
Alabama.....	227	320	467	733	744	679	212	326	140
Arizona.....	(NA)	(NA)	453	467	400	413	118	159	136
Arkansas.....	126	139	286	423	491	529	129	199	201
California.....	(NA)	(NA)	4,947	6,989	6,588	6,333	2,049	2,868	1,416
Colorado.....	(NA)	(NA)	461	684	676	585	180	255	140
Connecticut.....	290	565	618	662	775	799	270	395	134
Delaware.....	62	114	98	132	208	200	74	85	42
District of Columbia.....	97	119	222	319	272	310	169	124	18
Florida.....	532	1,047	1,443	1,834	2,235	1,890	533	1,003	354
Georgia.....	296	480	606	1,058	1,078	1,121	362	586	174
Idaho.....	(NA)	(NA)	115	139	174	187	59	55	72
Illinois.....	930	1,921	2,098	2,351	2,229	2,455	963	1,112	379
Indiana.....	389	649	803	970	1,097	1,332	533	455	344
Iowa.....	194	271	411	487	494	591	170	232	188
Kansas.....	214	512	462	404	501	473	145	208	120
Kentucky.....	191	375	486	564	638	691	181	333	177
Louisiana.....	311	612	579	939	996	1,190	477	448	265
Maine.....	40	154	116	128	144	151	57	48	47
Maryland.....	536	821	706	1,027	1,133	1,278	426	682	170
Massachusetts.....	486	759	764	1,068	1,083	1,063	436	476	181
Michigan.....	838	1,329	1,410	1,484	1,848	2,280	776	1,038	465
Minnesota.....	301	512	661	766	825	793	288	322	183
Mississippi.....	103	172	288	551	464	489	125	174	189
Missouri.....	368	688	807	963	1,190	1,129	392	485	253
Montana.....	(NA)	(NA)	133	154	186	219	30	62	126
Nebraska.....	106	221	288	345	332	360	135	121	104
Nevada.....	(NA)	(NA)	130	363	291	232	72	110	40
New Hampshire.....	34	86	103	112	121	150	69	47	34
New Jersey.....	748	1,010	1,235	1,508	1,609	1,541	597	770	293
New Mexico.....	(NA)	(NA)	220	312	322	377	107	117	152
New York.....	1,767	2,655	3,693	3,649	3,286	3,938	1,642	1,581	715
North Carolina.....	288	353	652	813	1,007	1,016	328	549	139
North Dakota.....	63	85	141	135	325	127	34	46	47
Ohio.....	978	2,035	1,924	2,191	2,347	2,497	979	1,047	471
Oklahoma.....	253	434	489	653	645	597	163	285	148
Oregon.....	(NA)	(NA)	365	574	497	586	158	209	219
Pennsylvania.....	1,138	1,539	1,439	1,801	1,992	2,118	908	699	512
Rhode Island.....	90	93	118	186	158	162	58	90	44
South Carolina.....	134	233	333	419	511	488	160	238	89
South Dakota.....	62	87	186	131	119	112	32	40	40
Tennessee.....	397	469	618	795	929	909	295	437	177
Texas.....	1,072	1,487	2,021	2,512	2,609	2,679	973	1,068	638
Utah.....	(NA)	(NA)	195	334	269	240	101	85	54
Vermont.....	21	35	51	53	67	106	39	26	42
Virginia.....	393	666	968	1,167	1,247	1,373	394	693	287
Washington.....	(NA)	(NA)	652	891	833	1,007	281	337	389
West Virginia.....	96	137	198	350	257	287	94	84	89
Wisconsin.....	332	592	753	815	855	1,034	450	409	175
Wyoming.....	(NA)	(NA)	121	141	143	117	26	30	61

NA Not available.

<sup>1</sup> Excludes Alaska and Hawaii. Total for 37 States and D.C. through 1955; 48 States and D.C. thereafter.

Source: F. W. Dodge Co., McGraw-Hill Inc., New York, N.Y. Figures reported currently in *Dodge Construction Contract Statistics Service*.

## No. 1104. CONSTRUCTION CONTRACTS—INDEXES OF VALUE: 1940 TO 1966

1957-59=100. Indexes are derived from monthly figures of construction contracts reported by the F. W. Dodge Company, a division of McGraw-Hill, Inc. Reports covered 37 States and D.C. through 1955 and 48 States and D.C. thereafter]

YEAR	Total <sup>1</sup>	BUILDING		YEAR AND MONTH	Total <sup>1</sup>	BUILDING	
		Resi- dential	Other			Resi- dential	Other
1940.....	15	14	14	1965:			
1945.....	12	5	20	January.....	137	134	140
1948.....	41	46	41	February.....	140	135	136
1949.....	44	50	40	March.....	141	146	142
1950.....	61	77	57	April.....	152	147	157
1951.....	63	66	75	May.....	145	141	169
1952.....	67	70	74	June.....	139	144	148
1953.....	69	68	77	July.....	149	138	152
1954.....	76	82	79	August.....	139	141	150
1955.....	91	97	94	September.....	147	140	164
1956.....	92	86	100	October.....	147	142	160
1957.....	93	87	101	November.....	141	156	160
1958.....	102	98	98	December.....	153	152	178
1959.....	105	115	102	1966:			
1960.....	105	101	109	January.....	152	142	150
1961.....	108	108	108	February.....	157	147	179
1962.....	120	121	116	March.....	158	154	178
1963.....	132	137	128	April.....	161	143	189
1964.....	137	137	139	May.....	156	135	173
1965.....	143	142	154				

<sup>1</sup> Represents the sum of the value of residential building contracts, nonresidential building contracts, and nonbuilding construction contracts. The existence of very large individual projects in the nonbuilding series results in an irregular pattern that is not conducive to seasonal adjustment.

Source: F. W. Dodge Co., McGraw-Hill, Inc., New York, N.Y. In Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

## No. 1105. CONTRACTS AWARDED, 1940 TO 1962, AND PLANNING BACKLOG, 1950 TO 1965, BY TYPE

[In millions of dollars. Prior to 1959, excludes Alaska and Hawaii. Backlog of construction planning includes<sup>8</sup> cumulative total of all jobs in planning stage at end of each year. Covers U.S. construction projects of following minimum costs: For 1940 and 1945, waterworks, excavation, drainage, and irrigation, \$15,000; other public works, \$25,000; industrial plants, \$40,000; other buildings, \$150,000. For 1950, minimums were: \$28,000, \$50,000, \$68,000, and \$250,000. For 1955, minimums were: \$44,000, \$73,000, \$93,000, and \$344,000. For 1960-62, minimums were: \$53,000, \$88,000, \$110,000, and \$400,000. For 1963-65, minimums were \$100,000 for nonbuilding, \$100,000 for industrial plants, and \$500,000 for buildings. See also *Historical Statistics, Colonial Times to 1957*, series N 75-84]

YEAR	Total	PUBLIC WORKS						PRIVATE BUILDINGS		Un- classi- fied
		Water- works	Sewer- age	Bridges <sup>1</sup>	Earth- work, irr., drain.	Streets, roads	Build- ings <sup>2</sup>	Indus- trial plants	Com- mercial	
CONTRACTS AWARDED										
1940.....	3,987	70	91	120	234	678	1,196	594	400	603
1945.....	2,289	61	35	53	57	227	463	635	387	371
1950.....	13,342	215	287	369	417	1,268	3,754	1,683	4,092	1,256
1955.....	18,722	314	402	546	546	2,137	1,987	2,951	7,794	2,046
1958.....	19,165	306	618	713	1,045	3,729	3,664	1,756	5,534	1,799
1959.....	20,423	376	655	570	915	2,599	3,195	2,993	6,361	1,958
1960.....	22,654	455	619	794	780	3,401	3,300	2,792	8,051	2,462
1961.....	21,981	431	819	651	804	3,712	3,427	2,817	7,636	1,685
1962 <sup>3</sup> .....	22,123	391	777	601	1,075	4,037	3,490	2,544	7,376	1,832
BACKLOG OF CONSTRUCTION PLANNING (DEC. 31)										
1950.....	52,113	1,387	2,182	1,692	7,282	4,598	12,050	5,753	6,963	10,206
1955.....	93,053	1,990	2,988	2,760	11,293	11,313	16,405	14,302	15,767	16,235
1960.....	124,700	2,919	4,117	3,385	12,135	13,634	22,724	17,986	27,274	20,526
1961.....	126,635	3,157	4,369	3,266	12,350	13,202	22,968	17,950	29,111	20,262
1962.....	126,548	3,124	4,597	3,436	12,381	12,923	23,025	17,600	29,471	19,992
1963.....	131,286	3,326	4,809	3,509	12,264	13,258	23,516	18,468	434,732	17,404
1964.....	137,118	3,187	5,168	3,026	16,507	14,683	24,147	17,038	437,200	16,161
1965.....	146,948	3,441	5,550	2,910	17,348	13,857	26,537	18,968	441,649	16,687

<sup>1</sup> Includes private; amount of private contracts awarded in 1962, \$1,395,000; amount in backlog of proposed work in 1965, \$98,264,000.

<sup>2</sup> Beginning 1950, includes contracts awarded for atomic energy plants as follows (in millions): 1950, \$2,020; 1955, \$131; 1958, \$94; 1959, \$241; 1960, \$50; 1961, \$82; 1962, \$106.

<sup>3</sup> Not available after 1962. <sup>4</sup> Includes mass housing.

Source: McGraw-Hill, Inc., New York, N.Y.; *Engineering News-Record*.

## No. 1106. NEW CONSTRUCTION PLANS—VALUE, BY TYPE, BY STATES: 1966

[In millions of dollars. For year ending May 31. Represents the total flow of new plans into the planning backlog reported in *Engineering News-Record*. Covers U.S. construction projects estimated to cost at least the following minimum values: Industrial plants and nonbuilding, \$100,000; buildings other than industrial, \$500,000]

STATE	Total	PUBLIC WORKS PLANS						PRIVATE BUILD- ING PLANS		Un- clas- sified
		Water- works	Sewer- age	Bridges <sup>1</sup>	Earth- work, irri- gation, drain- age	Streets, roads	Build- ings	Indus- trial plants	Com- mer- cial <sup>2</sup>	
<b>United States..</b>	<b>48,435</b>	<b>1,027</b>	<b>1,773</b>	<b>428</b>	<b>2,307</b>	<b>2,733</b>	<b>10,699</b>	<b>7,123</b>	<b>18,646</b>	<b>3,703</b>
Alabama.....	617	33	23	(Z)	10	9	265	92	124	60
Alaska.....	196	11	38	5	15	7	52	11	18	39
Arizona.....	515	2	16	5	1	176	106	20	83	107
Arkansas.....	510	11	19	-	47	13	128	199	73	20
California.....	4,093	51	66	27	52	487	915	360	1,670	463
Colorado.....	593	25	8	4	155	54	103	20	117	108
Connecticut.....	778	5	39	-	4	2	238	120	349	20
Delaware.....	97	(Z)	2	-	-	(Z)	29	16	48	1
Dist. of Col.....	411	-	-	2	-	(Z)	173	5	228	3
Florida.....	1,608	35	46	4	6	28	279	79	921	211
Georgia.....	937	12	12	3	142	17	156	140	336	119
Hawaii.....	127	-	(Z)	-	13	2	17	-	71	25
Idaho.....	192	2	5	2	3	24	96	21	37	3
Illinois.....	3,182	34	104	32	108	193	515	296	1,815	84
Indiana.....	1,431	18	39	8	80	19	329	446	402	92
Iowa.....	359	4	15	5	14	9	105	50	129	29
Kansas.....	364	10	21	3	15	3	77	36	192	7
Kentucky.....	846	24	15	-	103	8	248	241	121	90
Louisiana.....	1,279	35	32	42	201	155	175	218	296	126
Maine.....	439	4	13	-	228	8	39	31	103	14
Maryland.....	1,158	31	17	32	(Z)	1	211	51	807	9
Massachusetts.....	1,411	54	128	1	7	103	287	85	591	155
Michigan.....	2,447	85	99	25	3	404	565	505	665	95
Minnesota.....	688	11	44	1	7	8	161	69	338	49
Mississippi.....	463	22	13	1	18	11	48	245	61	44
Missouri.....	1,258	33	22	18	46	42	227	172	593	105
Montana.....	147	1	6	1	4	8	71	26	23	5
Nebraska.....	211	1	3	-	3	2	62	18	112	11
Nevada.....	245	12	-	4	20	101	31	4	67	9
New Hampshire.....	109	7	18	-	-	4	30	9	33	8
New Jersey.....	1,692	30	58	6	11	154	261	222	888	61
New Mexico.....	254	6	12	-	12	6	66	2	53	96
New York.....	4,198	74	241	29	17	47	1,095	488	1,968	240
North Carolina.....	816	25	26	2	19	9	190	211	310	25
North Dakota.....	66	2	2	-	-	1	26	(Z)	14	21
Ohio.....	2,835	57	100	7	36	23	567	795	1,082	167
Oklahoma.....	442	25	6	5	30	8	120	24	176	48
Oregon.....	651	10	55	4	77	66	95	90	147	108
Pennsylvania.....	2,480	20	120	46	39	103	569	465	960	159
Rhode Island.....	185	9	15	6	14	13	54	12	54	8
South Carolina.....	441	15	14	-	-	2	76	204	106	25
South Dakota.....	112	1	3	1	2	44	23	1	21	18
Tennessee.....	927	36	47	14	77	13	203	105	379	53
Texas.....	2,670	75	85	18	80	152	693	436	795	338
Utah.....	623	2	3	17	356	132	63	(Z)	38	11
Vermont.....	133	7	6	-	10	19	39	6	43	4
Virginia.....	897	8	29	-	4	1	269	44	477	67
Washington.....	841	36	25	18	75	39	214	174	217	43
West Virginia.....	381	5	11	16	134	(Z)	62	80	28	45
Wisconsin.....	982	9	56	14	(Z)	3	270	129	458	42
Wyoming.....	95	(Z)	(Z)	-	9	-	6	54	10	16

- Represents zero. Z Less than \$500,000.

<sup>1</sup> Includes bridges under private plans amounting to \$1,065,000.

<sup>2</sup> Includes mass housing.

Source: McGraw-Hill, Inc., New York, N.Y.; *Engineering News-Record*.

**No. 1107. BUILDING PERMITS—NUMBER AND VALUATION OF NEW HOUSING UNITS  
AUTHORIZED IN SELECTED SMSA's: 1960 TO 1965**

[Money figures in millions of dollars. Covers only permit-issuing places within standard metropolitan statistical areas (SMSA's). Includes public housing contract awards. The "10,000 place" series is based on a U.S. total of approximately 10,000 places identified in 1959 as having local building permit systems; the "12,000 place" series on a total of approximately 12,000 places so identified in 1962. For definition of SMSA, see text, p. 1]

STANDARD METROPOLITAN STATISTICAL AREA	NUMBER OF HOUSING UNITS					VALUATION 12,000 PLACE SERIES		
	10,000 place series		12,000 place series					
	1960	1963	1963	1964	1965	1963	1964	1965
Akron, Ohio.....	4, 723	3, 507	3, 871	4, 104	4, 047	56	65	60
Anaheim-Santa Ana-Garden Grove, Calif.....	21, 607	35, 062	35, 062	26, 882	17, 698	470	375	319
Atlanta, Ga.....	13, 378	23, 257	23, 369	20, 103	20, 604	201	203	216
Baltimore, Md.....	6, 832	14, 267	14, 836	15, 373	14, 872	163	164	168
Birmingham, Ala.....	4, 064	4, 410	4, 586	3, 340	4, 051	45	38	49
Boston, Mass.....	10, 128	14, 040	14, 289	20, 290	14, 110	167	204	171
Buffalo, N.Y.....	4, 500	4, 353	4, 363	5, 184	6, 109	54	64	75
Chicago, Ill.....	48, 109	39, 595	39, 999	38, 262	41, 626	523	531	596
Cincinnati, Ohio-Ky.-Ind.....	9, 604	9, 233	9, 714	8, 918	8, 653	122	107	105
Cleveland, Ohio.....	13, 216	16, 840	16, 847	13, 138	12, 302	221	190	197
Columbus, Ohio.....	5, 769	10, 736	10, 822	8, 114	8, 354	123	105	111
Dallas, Tex.....	13, 754	23, 708	23, 771	18, 256	13, 942	209	178	156
Dayton, Ohio.....	5, 091	7, 292	7, 530	8, 809	8, 139	91	105	101
Denver, Colo.....	13, 386	12, 098	12, 098	9, 594	8, 368	140	115	102
Detroit, Mich.....	16, 500	21, 723	21, 736	26, 130	30, 863	288	372	447
Fort Lauderdale-Hollywood, Fla.....	9, 955	9, 503	10, 216	11, 603	11, 866	119	142	160
Fort Worth, Tex.....	4, 785	5, 752	5, 860	7, 240	6, 073	58	69	63
Hartford, Conn.....	3, 972	5, 387	5, 404	6, 943	5, 748	55	67	135
Honolulu, Hawaii <sup>1</sup> .....	8, 397	6, 818	6, 818	7, 279	10, 805	80	87	140
Houston, Tex.....	8, 213	21, 877	21, 896	15, 952	13, 235	201	166	146
Indianapolis, Ind.....	5, 614	8, 068	8, 532	8, 046	9, 480	87	85	94
Jacksonville, Fla.....	6, 358	3, 614	3, 625	4, 357	3, 332	25	28	24
Kansas City, Mo.-Kans.....	8, 030	9, 282	9, 614	12, 295	12, 004	114	141	148
Las Vegas, Nev.....	3, 675	11, 050	11, 146	2, 813	1, 623	155	46	24
Los Angeles-Long Beach, Calif.....	60, 069	106, 437	106, 437	89, 019	52, 011	1, 239	1, 152	771
Louisville, Ky.-Ind.....	3, 962	6, 200	6, 277	7, 786	9, 102	68	80	84
Memphis, Tenn.-Ark.....	5, 297	7, 532	7, 532	6, 417	7, 557	50	54	54
Miami, Fla.....	11, 593	10, 282	10, 282	13, 283	17, 014	105	130	111
Milwaukee, Wis.....	8, 837	7, 407	7, 484	9, 502	9, 382	91	114	204
Minneapolis-St. Paul, Minn.....	12, 745	16, 061	16, 230	16, 996	15, 248	202	228	37
Nashville, Tenn.....	3, 169	3, 782	3, 877	5, 076	4, 652	31	39	140
New Orleans, La.....	5, 214	10, 037	10, 040	10, 202	11, 027	141	136	705
New York, N.Y.....	71, 031	76, 161	76, 578	46, 383	53, 854	870	582	1703
Newark, N.J.....	11, 613	11, 282	11, 282	16, 536	11, 994	129	164	153
Newport News-Hampton, Va.....	2, 204	3, 659	3, 669	4, 467	4, 067	40	43	38
Norfolk-Portsmouth, Va.....	4, 538	6, 272	6, 272	8, 116	6, 412	73	97	80
Oklahoma City, Okla.....	5, 318	9, 146	9, 561	8, 299	6, 867	114	101	88
Omaha, Nebr.-Iowa.....	4, 230	3, 808	3, 845	4, 005	4, 838	37	38	44
Orlando, Fla.....	5, 375	3, 558	3, 561	3, 666	4, 265	43	41	111
Paterson-Clifton-Passaic, N.J.....	7, 420	9, 255	9, 255	9, 291	8, 376	116	118	305
Philadelphia, Pa.-N.J.....	23, 500	25, 294	25, 561	29, 045	30, 033	266	285	59
Phoenix, Ariz.....	16, 320	14, 858	15, 022	11, 176	5, 925	112	92	59
Pittsburgh, Pa.....	9, 185	7, 259	7, 790	7, 922	9, 441	106	110	129
Portland, Oreg.-Wash.....	6, 159	7, 443	7, 445	8, 416	7, 904	95	107	97
Providence-Pawtucket-Warwick, R.I.- Mass.....	3, 864	4, 533	4, 554	5, 356	6, 219	52	61	70
Rochester, N.Y.....	3, 368	5, 626	5, 690	6, 119	7, 370	75	90	111
Sacramento, Calif.....	11, 235	14, 906	14, 906	9, 127	7, 600	150	107	101
St. Louis, Mo.-Ill.....	11, 515	13, 595	15, 490	18, 888	18, 866	176	211	236
Salt Lake City, Utah.....	4, 117	6, 626	6, 626	4, 314	3, 484	73	58	46
San Antonio, Tex.....	3, 419	5, 043	5, 043	5, 089	4, 321	42	43	39
San Bernardino-Riverside-Ontario, Calif.....	13, 290	24, 849	24, 849	22, 018	11, 995	274	236	139
San Diego, Calif.....	14, 407	12, 770	12, 770	13, 906	9, 471	164	176	134
San Francisco-Oakland, Calif.....	27, 310	40, 256	40, 264	38, 277	31, 071	501	526	485
San Jose, Calif.....	16, 427	21, 374	21, 376	14, 731	10, 414	248	195	164
Santa Barbara, Calif.....	3, 783	6, 448	6, 448	2, 988	3, 338	83	42	39
Seattle-Everett, Wash.....	7, 583	12, 196	13, 849	9, 121	9, 620	191	130	147
Syracuse, N.Y.....	2, 772	2, 993	3, 045	3, 081	3, 498	35	34	39
Tacoma, Wash.....	2, 307	3, 079	3, 086	2, 886	3, 077	36	36	38
Tampa-St. Petersburg, Fla.....	13, 364	9, 232	9, 235	9, 303	8, 347	105	103	94
Tucson, Ariz.....	4, 325	5, 895	5, 895	3, 150	1, 954	48	31	23
Washington, D.C.-Md.-Va.....	20, 329	46, 230	46, 230	42, 691	55, 878	429	449	584
West Palm Beach, Fla.....	3, 902	4, 837	5, 059	5, 169	5, 286	64	67	64

<sup>1</sup> Covers entire county of Honolulu.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, series C42, annual issues.

**No. 1108. NEW NONFARM HOUSING UNITS STARTED, BY TYPE OF OWNERSHIP:  
1945 to 1965**  
(In thousands of units)

YEAR	Total	Private	Public	YEAR	Total	Private	Public
1945.....	326	325	1	1956.....	1,349	1,325	24
1947.....	1,268	1,265	3	1957.....	1,224	1,175	49
1948.....	1,362	1,344	18	1958.....	1,382	1,314	68
1949.....	1,466	1,430	36	1959.....	1,531	1,495	37
1950.....	1,952	1,908	44	1960.....	1,274	1,230	44
1951.....	1,491	1,420	71	1961.....	1,337	1,285	52
1952.....	1,504	1,446	58	1962.....	1,469	1,439	30
1953.....	1,438	1,402	36	1963.....	1,613	1,582	32
1954.....	1,551	1,532	19	1964.....	1,564	1,530	33
1955.....	1,646	1,627	19	1965.....	1,520	1,483	38

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C20.

**No. 1109. NEW HOUSING UNITS STARTED—SELECTED CHARACTERISTICS, AND COST:  
1960 to 1965**

YEAR	HOUSING UNITS STARTED (1,000)									ESTIMATED CONSTRUCTION COST <sup>4</sup> (mill. dol.)		
	Total	Area <sup>1</sup>		Type of structure			Type of program			Pri- vately fi- nanced	Pub- licly fi- nanced	
		Metro- poli- tan	Non- metro- poli- tan	1-fam- ily	2-fam- ily <sup>2</sup>	Multi- fam- ily <sup>3</sup>	Private		Pub- lic			
							Total	Government programs				
								FHA				VA
TOTAL												
1960	1,296	889	407	1,000	51	237	1,252	261	75	44	15,831	528
1961	1,365	948	417	989	50	326	1,313	244	83	52	16,476	600
1962	1,492	1,054	439	996	56	440	1,463	260	78	30	18,373	347
1963	1,641	1,151	490	1,022	61	559	1,609	221	71	32	20,345	378
1964	1,591	1,118	473	973	62	556	1,557	205	59	33	20,375	412
1965	1,543	1,068	475	964	57	522	1,505	197	53	38	20,472	473
NONFARM												
1960	1,274	888	386	987	51	237	1,230	261	75	44	15,596	528
1961	1,337	946	391	961	50	326	1,285	244	83	52	16,132	609
1962	1,469	1,053	416	973	56	440	1,439	260	78	30	18,053	347
1963	1,613	1,149	464	994	61	558	1,582	221	71	32	19,980	378
1964	1,564	1,118	446	946	62	556	1,530	205	59	33	20,101	412
1965	1,520	1,068	453	941	57	522	1,483	197	53	38	20,221	473

<sup>1</sup> For definition of SMSA's, see text, p. 1. 1960 based on 1959 definitions (*Standard Metropolitan Statistical Areas, 1959*, Bureau of the Budget); 1961-1963 based on 1961 revision; 1964 and 1965 based on 1964 revision.

<sup>2</sup> Includes 1- and 2-family structures with stores. <sup>3</sup> Includes multifamily structures with stores.

<sup>4</sup> Private construction costs based on permit valuation, adjusted for understatement of costs shown on permit applications. Public construction costs based on contract values or estimated construction costs for individual projects.

Source: Dept. of Commerce, Bureau of the Census; *Construction Reports*, Series C20, and unpublished data.

**No. 1110. NEW PRIVATELY OWNED NONFARM ONE-FAMILY HOUSING UNITS  
STARTED—NUMBER AND AVERAGE CONSTRUCTION COST: 1960 to 1966**

[Average cost of all such housing units started nationally. Data do not represent construction cost of a typical house. These averages are affected by changes in cost of materials and labor, variations in size and design of the houses, type of projects started, differences in construction methods, and other variables. Construction cost covers only labor, materials, and subcontracted work, and that part of the builders' overhead and profit chargeable directly to the construction projects; excludes architect and engineering fees. Cost data based primarily on builders' estimates of construction cost made at the start of construction]

YEAR AND MONTH	Number of units started	Average cost per unit	YEAR AND MONTH	Number of units started	Average cost per unit
1960.....	972,900	\$13,800	1965—Continued		
1962.....	967,800	14,325	July.....	91,800	\$15,925
1963.....	993,200	14,875	August.....	86,500	16,050
1964.....	944,500	16,050	September.....	78,400	16,500
1965.....	<sup>1</sup> 940,000	16,250	October.....	84,400	16,300
January.....	50,400	15,550	November.....	70,200	16,550
February.....	50,700	16,050	December.....	58,300	16,500
March.....	74,800	16,050	1966: January.....	47,200	17,175
April.....	97,700	16,475	February.....	45,300	16,700
May.....	99,900	16,475	March.....	78,700	17,050
June.....	97,000	16,250	April.....	93,000	16,975

<sup>1</sup> Preliminary.

Source: Dept. of Commerce, Bureau of the Census. Number in Bureau of the Census, *Construction Reports*, Series C20; cost in Business and Defense Services Administration, *Construction Review*.

**No. 1111. NEW AND EXISTING ONE-FAMILY HOMES, FHA-INSURED MORTGAGES—  
PERCENT DISTRIBUTION BY VALUE AND MORTGAGE CHARACTERISTICS: 1950 TO 1965**

ITEM	NEW HOMES				EXISTING HOMES			
	1950	1960	1964	1965	1950	1960	1964	1965
FHA estimate of value:								
Less than \$10,000.....	79.5	2.7	1.8	1.0	64.9	17.0	10.9	8.9
\$10,000 to \$14,999.....	19.1	53.2	35.4	30.0	29.9	53.3	42.9	39.7
\$15,000 to \$19,999.....	1.2	37.5	45.9	48.9	4.5	24.8	35.7	37.9
\$20,000 and over.....	0.2	6.6	16.9	20.1	0.7	4.9	10.5	13.5
Amount of mortgage:								
Less than \$10,000.....	96.3	6.1	4.0	2.1	89.8	25.9	15.7	12.7
\$10,000 to \$14,999.....	3.5	65.6	44.4	39.7	9.5	57.2	47.9	45.7
\$15,000 to \$19,999.....	0.2	26.9	41.3	45.5	0.7	15.7	30.9	34.1
\$20,000 and over.....	-	1.4	10.3	12.7	-	1.2	5.5	7.5
Ratio of loan to value:								
80 percent or less.....	16.0	6.3	3.7	4.1	83.2	7.6	3.4	3.4
81 to 90.....	68.0	22.0	14.7	15.7	14.2	32.7	19.2	19.5
91 to 95.....	16.0	42.9	45.4	46.0	2.6	30.9	36.3	39.3
96 to 97.....	-	28.8	36.2	34.2	-	28.8	41.1	37.8
Term of mortgage:								
10, 15, or 20 years.....	(NA)	1.8	0.8	0.5	(NA)	18.8	7.3	6.1
25 years.....	(NA)	12.1	3.6	3.0	(NA)	43.6	19.5	16.9
30 years.....	(NA)	86.1	62.6	59.2	(NA)	37.6	71.0	74.9
35 years.....	(NA)	-	33.0	37.3	(NA)	-	2.2	2.1
Monthly mortgage payment:								
Less than \$100.....	99.2	42.3	31.7	28.1	96.4	55.9	41.4	35.9
\$100 to \$119.....	0.6	35.5	31.1	30.8	2.5	25.3	26.0	26.3
\$120 to \$139.....	0.2	16.1	20.8	21.0	1.1	12.5	18.8	20.8
\$140 and over.....		6.1	16.4	19.5		6.3	12.9	17.0

- Represents zero. NA Not available.

Source: Dept. of Housing and Urban Development, Federal Housing Administration; unpublished data.

**No. 1112. NEW AND EXISTING ONE-FAMILY HOMES, FHA-INSURED MORTGAGES—  
MEDIAN FOR SELECTED ITEMS OF VALUE AND COST: 1950 TO 1965**

[In dollars, except ratios. For definition of median, see headnote, table 5]

ITEM	NEW HOMES				EXISTING HOMES			
	1950	1960	1964	1965	1950	1960	1964	1965
FHA estimate of value.....	8,286	14,607	16,063	16,561	8,865	13,043	14,614	15,128
Acquisition cost.....	(NA)	14,606	16,025	16,523	(NA)	13,227	14,634	15,114
Sale price.....	(NA)	14,324	15,684	16,190	(NA)	12,975	14,304	14,733
Incidental costs.....	(NA)	286.05	349.15	376.20	(NA)	275.45	297.19	321.50
Ratio: Value/acquisition cost.....	(NA)	99.2	99.7	99.7	(NA)	98.1	99.0	99.5
Mortgage amount.....	7,101	13,569	15,118	15,574	6,801	11,978	13,725	14,232
Ratio: Mortgage/value.....	88.0	93.5	94.5	94.3	77.8	92.6	94.8	94.4
Price of site.....	(NA)	2,404	2,990	3,137	(NA)	2,285	2,824	2,955
Ratio: Site/value.....	(NA)	16.1	17.9	18.3	(NA)	16.8	18.7	19.0
Monthly housing expense <sup>1</sup> .....	75.41	128.98	139.92	144.32	78.99	121.41	134.91	140.90

NA Not available.

<sup>1</sup> Comprises mortgage payment for first year, estimated heating and utilities cost, and estimated upkeep.

Source: Dept. of Housing and Urban Development, Federal Housing Administration; unpublished data.



No. 1113. NEW AND EXISTING ONE-FAMILY HOMES, FHA-INSURED MORTGAGES—SELECTED AVERAGE VALUE AND PAYMENT CHARACTERISTICS, BY FHA ESTIMATE OF PROPERTY VALUE: 1965

(In dollars, except as indicated)

CHARACTERISTIC	Total	FHA ESTIMATE OF PROPERTY VALUE													\$22,000 or more
		Less than \$9,000	\$9,000 to \$9,999	\$10,000 to \$10,999	\$11,000 to \$11,999	\$12,000 to \$12,999	\$13,000 to \$13,999	\$14,000 to \$14,999	\$15,000 to \$15,999	\$16,000 to \$16,999	\$17,000 to \$17,999	\$18,000 to \$18,999	\$19,000 to \$19,999	\$20,000 to \$21,999	
NEW HOMES															
Value characteristics:															
FHA estimate of value.....	17,190	8,600	9,489	10,564	11,522	12,500	13,448	14,482	15,458	16,452	17,446	18,437	19,418	20,883	
Replacement cost (FHA estimate).....	17,769	9,208	10,130	11,084	12,048	12,994	13,915	15,002	16,022	17,144	18,118	19,061	20,059	21,519	
Acquisition cost.....	17,201	8,769	9,617	10,642	11,581	12,503	13,471	14,460	15,481	16,454	17,453	18,484	19,478	20,991	
Calculated area.....square feet.....	1,228	726	803	872	936	985	1,035	1,067	1,110	1,190	1,244	1,302	1,368	1,477	
Payment characteristics:															
Total fixed obligations.....	230.45	123.89	118.56	141.61	164.47	178.38	190.55	203.28	212.04	224.42	235.15	244.07	258.21	274.20	
Housing expense.....	147.54	72.66	80.77	90.45	100.60	110.07	117.94	126.33	134.53	143.62	150.86	158.18	167.22	178.65	
Mortgage payment.....	117.10	54.06	61.22	68.89	77.14	85.02	92.14	99.60	106.14	113.47	119.47	126.15	133.29	142.77	
Debt service <sup>1</sup> .....	93.13	48.69	53.79	59.24	64.78	69.49	74.80	80.43	85.45	90.23	95.30	100.05	104.91	111.48	
Hazard insurance.....	4.33	2.63	2.83	3.13	3.45	3.65	3.82	4.10	4.27	4.22	4.31	4.39	4.42	4.54	
Real estate taxes.....	19.64	2.74	4.60	6.52	8.91	11.88	13.52	15.07	16.42	19.02	19.86	21.71	23.96	26.75	
Maintenance and repair.....	8.69	4.89	5.52	6.07	6.17	6.57	6.78	7.13	7.56	8.29	8.95	9.14	10.23	11.03	
Heating and utilities.....	21.75	13.71	14.03	15.49	17.29	18.48	19.02	19.60	20.83	21.86	22.44	22.89	23.70	24.85	
Other recurring charges <sup>2</sup> .....	82.91	51.23	37.79	51.16	63.87	68.31	72.61	76.95	77.51	80.80	84.29	85.89	90.99	95.55	
EXISTING HOMES															
Value characteristics:															
FHA estimate of value.....	15,394	7,923	9,450	10,455	11,448	12,456	13,448	14,443	15,437	16,436	17,440	18,425	19,411	20,854	
Replacement cost (FHA estimate).....	17,446	11,003	12,256	12,975	13,767	14,618	15,444	16,363	17,292	18,255	19,256	20,306	21,203	22,689	
Acquisition cost.....	15,437	7,973	9,514	10,483	11,453	12,504	13,520	14,513	15,498	16,474	17,510	18,492	19,475	20,940	
Calculated area.....square feet.....	1,181	947	1,001	1,017	1,044	1,078	1,097	1,130	1,155	1,196	1,232	1,262	1,329	1,408	
Payment characteristics:															
Total fixed obligations.....	227.79	156.57	170.23	179.79	190.46	200.37	209.23	219.12	228.16	237.44	247.79	257.70	265.03	279.70	
Housing expense.....	143.07	88.79	98.70	105.63	112.69	120.27	128.00	135.84	143.60	151.52	159.01	166.68	174.25	184.88	
Mortgage payment.....	112.02	62.18	71.67	78.36	85.05	91.81	99.02	106.43	113.07	120.76	128.08	135.08	143.90	154.70	
Debt service <sup>1</sup> .....	86.50	48.98	56.38	61.47	66.48	71.81	77.04	82.49	87.56	92.49	97.44	102.23	107.28	113.69	
Hazard insurance.....	3.73	2.92	3.20	3.29	3.51	3.42	3.48	3.57	3.73	3.63	3.71	4.05	3.90	4.41	
Real estate taxes.....	21.70	10.28	11.89	13.60	15.06	16.58	18.50	20.37	21.78	23.90	25.61	26.80	28.72	30.60	
Maintenance and repair.....	8.89	6.78	7.03	7.16	7.31	7.49	7.68	7.87	8.24	8.79	9.09	9.73	9.99	10.71	
Heating and utilities.....	22.46	19.83	20.00	20.11	20.33	20.97	21.30	21.54	22.29	22.71	23.16	23.87	24.36	25.47	
Other recurring charges <sup>2</sup> .....	84.72	67.78	71.53	74.16	77.77	80.10	81.23	83.28	84.56	85.92	88.78	91.02	90.78	94.82	

<sup>1</sup> Comprises payments for first year to principal and interest, FHA mortgage insurance premium.

<sup>2</sup> Comprises payments to State income tax, life insurance premiums, compulsory payments to retirement funds, installment credit payments, etc., when likely to become a factor in determining the adequacy of the mortgagee's income to meet mortgage and home upkeep requirements.

Source: Dept. of Housing and Urban Development, Federal Housing Administration; unpublished data.

# No. 1114. NEW PRIVATE NONFARM ONE-FAMILY HOMES SOLD OR FOR SALE: JULY 1964 TO APRIL 1966

[Data based on monthly interviews with builders or owners of a national probability sample of 1-family homes for which building permits have been issued or, in nonpermit areas, on which construction has started. For details, see source. For definition of median, see headnote, table 5]

YEAR AND MONTH	HOMES SOLD DURING MONTH <sup>1</sup>			HOMES FOR SALE AT END OF MONTH <sup>1</sup>			Homes for sale—homes sold ratio (months) <sup>2</sup>
	Total number (1,000)	Median sales price	Median number of months, start to sale	Total number (1,000)	Median intended sales price	Median number of months from start of construction to end of month	
<b>1964:</b>							
July.....	54	\$19,100	3.9	251	\$19,100	5.0	4.6
August.....	56	18,700	3.7	242	19,400	4.9	4.3
September.....	48	18,900	3.9	239	19,400	5.0	5.0
October.....	45	18,800	3.0	240	19,400	5.0	5.3
November.....	37	19,300	3.6	243	19,500	5.1	6.6
December.....	33	20,800	4.3	244	19,600	5.3	7.4
<b>1965:</b>							
January.....	38	20,900	4.7	241	19,600	5.6	6.3
February.....	43	20,600	4.5	242	19,500	5.9	5.6
March.....	53	20,000	4.0	239	19,500	6.0	4.5
April.....	49	19,900	3.9	241	19,700	5.7	4.9
May.....	54	19,600	3.5	233	19,900	5.3	4.3
June.....	57	19,800	3.9	227	20,300	4.7	4.0
July.....	52	21,100	3.1	222	20,400	4.4	4.2
August.....	58	20,200	3.8	215	20,500	4.3	3.7
September.....	48	19,600	3.2	214	20,700	4.3	4.5
October.....	44	19,800	2.9	215	20,700	4.2	4.9
November.....	41	20,700	3.7	227	21,000	4.1	5.5
December.....	37	20,300	4.0	221	21,300	4.5	6.0
<b>1966:</b>							
January.....	41	21,200	4.0	221	21,200	4.7	5.4
February.....	42	20,700	4.5	214	21,200	5.1	5.1
March.....	51	20,600	3.5	219	21,600	5.0	4.3
April.....	47	22,700	3.5	220	21,800	5.1	4.7

<sup>1</sup> Homes sold include all homes; homes for sale include only completed homes, homes under construction, and homes not yet started for which building permits have been issued.

<sup>2</sup> Derived by dividing the total number of homes for sale at the end of the month by the total number of homes sold during the same month.

Source: Dept. of Commerce, Bureau of the Census, and Dept. of Housing and Urban Development, Office of Program Policy; *Construction Reports*, Series C25 (a joint publication).

# No. 1115. MOBILE HOMES AND TRAVEL TRAILERS—MANUFACTURERS' SHIPMENTS: 1959 TO 1966

[A mobile home, or housing-type trailer, is a vehicular portable structure built on a chassis and designed to be used without a permanent foundation as a year-round dwelling when connected to utilities. Mobile homes are defined as units 29 feet or longer and weighing over 4,500 pounds; travel trailers, as units less than 29 feet long, regardless of weight, or weighing less than 4,500 pounds, regardless of length. Excludes units designed for commercial uses, pickup cabs, folding campers, and amphibious units]

YEAR AND MONTH	Total	Mobile homes	Travel trailers	Mobile homes as percent of total shipments
<b>1959</b> .....	162,500	120,500	42,000	74.2
<b>1960</b> .....	144,000	103,700	40,300	72.0
<b>1961</b> .....	130,700	90,200	40,500	69.0
<b>1962</b> .....	175,000	118,000	57,000	67.4
<b>1963</b> .....	223,010	150,840	72,170	67.6
<b>1964</b> .....	281,690	191,320	90,370	67.9
<b>1965</b> .....	324,050	216,470	107,580	66.8
<b>1966:</b>				
January.....	15,465	11,550	3,915	74.7
February.....	22,070	14,170	7,900	64.2
March.....	33,890	19,940	13,950	58.8
April.....	33,970	19,470	14,500	57.3
May.....	35,430	20,040	15,390	56.6

Source: Dept. of Commerce, Business and Defense Services Administration; *Construction Review*.

# No. 1116. AVAILABLE VACANT HOUSING UNITS—SELECTED CHARACTERISTICS: 1964 to 1966

[Percent distribution. First quarter figures. See headnote, table 1119. For definition of median, see headnote, table 5]

VACANT RENTAL UNITS	1964	1965	1966	VACANT HOMEOWNER UNITS	1964	1965	1966
<b>Number of housing units in structure</b> .....	100	100	100	<b>Number of housing units in structure</b> .....	100	100	100
1 housing unit.....	32	28	30	1 housing unit.....	91	92	87
2 to 4 housing units.....	33	32	31	2 housing units.....	6	5	8
5 housing units or more.....	35	40	39	3 housing units or more.....	3	3	5
<b>Duration of vacancy at time of enumeration</b> .....	100	100	100	<b>Duration of vacancy at time of enumeration</b> .....	100	100	100
Less than 1 month.....	30	28	28	Less than 1 month.....	11	13	11
1 up to 2 months.....	13	14	14	1 up to 2 months.....	11	10	7
2 up to 4 months.....	18	18	18	2 up to 4 months.....	17	16	18
4 months or more.....	39	40	40	4 months or more.....	61	61	64
<b>Year built</b> .....	100	100	100	<b>Year built</b> .....	100	100	100
1949 or earlier.....	73	69	69	1949 or earlier.....	43	45	46
1950 to 1959.....	15	13	13	1950 to 1959.....	28	22	23
1960 or later.....	12	18	18	1960 or later.....	29	33	31
<b>Percent with all plumbing facilities</b> .....	78	77	79	<b>Percent with all plumbing facilities</b> .....	92	90	92
<b>Median number of rooms</b> .....	3.5	3.5	3.4	<b>Median number of rooms</b> .....	5.3	5.4	5.3
<b>Median monthly rent asked</b> .....	\$59	\$63	\$66	<b>Median sale price asked</b> .....	\$12,500	\$12,900	\$13,300

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-111.

# No. 1117. VACANT RENTAL HOUSING UNITS—SELECTED CHARACTERISTICS: 1964 AND 1965

[Percent distribution. Second quarter figures. Excludes all available-for-rent vacant units on places of 10 acres or more in rural areas. See headnote, table 1119]

CHARACTERISTIC	MONTHLY RENT ASKED, 1964						MONTHLY RENT ASKED, 1965					
	Total	Less than \$30	\$30 to \$49	\$50 to \$69	\$70 to \$99	\$100 or more	Total	Less than \$30	\$30 to \$49	\$50 to \$69	\$70 to \$99	\$100 or more
<b>Percent of total</b> .....	100	10	25	26	18	21	100	10	20	23	22	25
<b>Number of rooms in unit</b> .....	100	100	100	100	100	100	100	100	100	100	100	100
1 and 2 rooms.....	26	37	44	24	12	13	24	45	39	24	15	13
3 and 4 rooms.....	58	45	43	58	60	59	56	43	44	59	62	61
5 rooms or more.....	21	18	13	18	28	28	20	12	17	17	23	26
<b>Number of housing units in structure</b> .....	100	100	100	100	100	100	100	100	100	100	100	100
1 housing unit.....	27	56	25	28	26	16	25	51	30	23	22	16
2 to 4 housing units.....	33	23	32	45	39	18	33	25	30	46	41	18
5 housing units or more.....	40	21	43	27	35	66	42	24	40	31	37	66
<b>Duration of vacancy at time of enumeration</b> .....	100	100	100	100	100	100	100	100	100	100	100	100
Less than 1 month.....	33	23	28	32	45	36	32	21	29	35	40	32
1 up to 2 months.....	14	8	12	15	16	14	13	11	9	14	16	14
2 up to 4 months.....	16	11	15	21	16	15	15	11	12	14	14	19
4 months or more.....	37	58	45	32	23	35	40	57	50	36	30	35
<b>Year built</b> .....	100	100	100	100	100	100	100	100	100	100	100	100
1949 or earlier.....	71	90	93	85	66	20	65	88	92	86	62	19
1950 to 1959.....	16	9	6	12	24	28	13	11	7	11	19	14
1960 or later.....	13	1	1	3	10	52	22	1	1	3	19	67
<b>Percent with all plumbing facilities</b> .....	78	25	58	88	96	100	82	24	60	90	98	100

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-111, Nos. 37 and 41.

# **No. 1118. VACANT HOUSING UNITS—CONDITION AND STATUS, INSIDE AND OUTSIDE STANDARD METROPOLITAN STATISTICAL AREAS: 1960 TO 1966**

[Percent distribution. Based on sample data from Current Population Survey; see text, p. 1. For definition of standard metropolitan statistical areas, see text, p. 1; covers 212 SMSA's as constituted in 1960]

CONDITION AND STATUS	TOTAL				INSIDE SMSA'S			OUTSIDE SMSA'S		
	April 1960	1st qtr. 1964	1st qtr. 1965	1st qtr. 1966	April 1960	1st qtr. 1965	1st qtr. 1966	April 1960	1st qtr. 1965	1st qtr. 1966
All housing units.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Year-round vacant:										
Sound or deteriorating.....	5.2	6.5	6.9	7.1	4.9	6.4	6.4	5.8	7.7	8.3
For rent.....	2.5	2.6	2.8	2.7	2.6	3.1	2.8	2.2	2.2	2.4
For sale only.....	0.9	0.8	0.8	0.8	1.0	0.8	0.8	0.8	0.9	0.8
Rented or sold, awaiting occupancy.....	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.3
Held off market.....	1.5	2.7	2.9	3.2	0.9	2.1	2.3	2.4	4.3	4.8
Dilapidated.....	0.9	0.7	0.7	0.7	0.5	0.5	0.5	1.5	1.1	1.1
Seasonal vacant.....	3.0	3.2	3.1	2.9	1.2	1.0	1.0	6.0	6.7	6.1
Occupied.....	90.9	80.6	80.3	80.3	93.4	92.1	92.1	86.7	84.5	84.5

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-111.

# **No. 1119. VACANCY RATES—REGIONS, AND INSIDE AND OUTSIDE STANDARD METROPOLITAN STATISTICAL AREAS: 1960 TO 1966**

[In percent. Rental rate is relationship between vacant housing for rent and the total rental supply, which comprises renter-occupied units, vacant units already rented and awaiting occupancy, and vacant units available for rent. Home-owner rate is relationship between vacant housing for sale and the total home-owner supply, which comprises owner-occupied units, vacant units already sold and awaiting occupancy, and vacant units available for sale. For composition of regions, see fig. 1, p. XII; for definition of standard metropolitan statistical areas, see text, p. 1; covers 212 SMSA's as constituted in 1960]

RATE AND YEAR	United States	REGIONS				Inside SMSA's	Outside SMSA's
		North-east	North Central	South	West		
<b>Rental vacancy rate:</b>							
1960, April.....	6.7	4.2	6.7	8.0	8.8	6.4	7.3
1964, 1st quarter.....	7.3	4.6	8.3	8.2	8.7	7.5	6.8
1965, 1st quarter.....	7.7	5.5	7.2	8.2	10.6	7.7	7.6
1966, 1st quarter.....	7.5	4.9	6.4	8.7	10.7	7.0	8.5
<b>Home-owner vacancy rate:</b>							
1960, April.....	1.6	1.2	1.3	1.8	2.0	1.7	1.3
1964, 1st quarter.....	1.3	1.0	1.2	1.6	1.6	1.5	1.2
1965, 1st quarter.....	1.5	0.9	1.2	1.9	1.9	1.5	1.5
1966, 1st quarter.....	1.4	0.8	1.0	1.8	2.1	1.4	1.4

Source: Dept. of Commerce, Bureau of the Census; *Current Housing Reports*, Series H-111.

# **No. 1120. HOUSING UNITS INSIDE AND OUTSIDE STANDARD METROPOLITAN STATISTICAL AREAS, BY YEAR STRUCTURE BUILT: 1960**

[In thousands, except percent. Based on sample and subject to sampling variability. For definition of standard metropolitan statistical areas, see text, p. 1; covers 212 SMSA's as constituted in 1960]

YEAR STRUCTURE BUILT	TOTAL		INSIDE SMSA'S			Outside SMSA's
	Number	Percent	Total	In central cities	Not in central cities	
All units.....	58,318	100.0	36,378	19,617	16,761	21,940
1929 or earlier.....	27,121	46.5	16,310	11,085	5,225	10,811
1930 to 1939.....	6,512	11.2	3,939	2,233	1,706	2,572
1940 to 1949.....	8,640	14.8	5,282	2,404	2,878	3,358
1950 to 1954.....	7,556	13.0	5,123	2,032	3,091	2,434
1955 to 1958.....	6,223	10.7	4,189	1,364	2,825	2,033
1959 to March 1960.....	2,267	3.9	1,535	499	1,036	732

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, Vol. I.

**No. 1121. OCCUPIED HOUSING UNITS—TENURE, AND POPULATION PER OCCUPIED UNIT, BY COLOR OF HOUSEHOLD HEAD, AND BY NONFARM AND FARM RESIDENCE: 1890 to 1960**

[In thousands, except percent. Excludes Alaska and Hawaii, except as noted. Tenure allocated for housing units which did not report. Minus sign (-) denotes decrease. See also *Historical Statistics, Colonial Times to 1957*, series N 139-146]

YEAR, COLOR, AND RESIDENCE	OCCUPIED UNITS <sup>1</sup>				PERCENT INCREASE OVER PRECEDING CENSUS		Population per occupied unit <sup>2</sup>	
	Total	Owner occupied		Renter occupied		Total occupied units		Total population
		Number	Percent	Number	Percent			
<b>TOTAL</b>								
1890.....	12,690	6,066	47.8	6,624	52.2	(NA)	(NA)	5.0
1900.....	15,964	7,455	46.7	8,509	53.3	25.8	20.7	4.8
1910.....	20,256	9,301	45.9	10,954	54.1	26.9	21.0	4.5
1920.....	24,352	11,114	45.6	13,238	54.4	20.2	14.9	4.3
1930.....	29,905	14,280	47.8	15,624	52.2	22.8	16.1	4.1
1940.....	34,855	15,196	43.6	19,659	56.4	16.6	7.2	3.8
1950.....	42,826	23,560	55.0	19,266	45.0	22.9	14.5	3.5
1960.....	52,814	32,706	61.9	20,107	38.1	23.3	18.4	3.4
1960 <sup>3</sup> .....	53,024	32,797	61.9	20,227	38.1	23.4	18.5	3.4
<b>COLOR</b>								
<b>White</b>								
1890.....	11,255	5,794	51.5	5,462	48.5	(NA)	(NA)	4.9
1900.....	14,064	7,007	49.8	7,057	50.2	25.0	21.2	4.8
1910.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	22.3	(NA)
1920.....	21,826	10,511	48.2	11,315	51.8	(NA)	16.0	4.3
1930.....	26,983	13,544	50.2	13,439	49.8	23.6	16.3	4.1
1940.....	31,561	14,418	45.7	17,143	54.3	17.0	7.2	3.7
1950.....	39,044	22,241	57.0	16,803	43.0	23.7	14.1	3.5
1960.....	47,777	30,783	64.4	16,994	35.6	22.4	17.4	3.3
1960 <sup>3</sup> .....	47,880	30,823	64.4	17,057	35.6	22.5	17.5	3.3
<b>Nonwhite</b>								
1890.....	1,435	273	19.0	1,162	81.0	(NA)	(NA)	5.5
1900.....	1,900	448	23.6	1,452	76.4	32.4	17.1	4.8
1910.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	11.5	(NA)
1920.....	2,526	603	23.9	1,923	76.1	(NA)	6.3	4.3
1930.....	2,922	737	25.2	2,185	74.8	15.7	14.7	4.3
1940.....	3,293	778	23.6	2,516	76.4	12.7	7.7	4.1
1950.....	3,783	1,319	34.9	2,464	65.1	14.9	17.1	4.2
1960.....	5,037	1,923	38.2	3,114	61.8	33.1	27.0	4.0
1960 <sup>3</sup> .....	5,144	1,974	38.4	3,171	61.6	33.0	26.7	4.0
<b>RESIDENCE</b>								
<b>Nonfarm</b>								
1890.....	7,923	2,924	36.9	4,999	63.1	(NA)	(NA)	(NA)
1900.....	10,274	3,790	36.9	6,484	63.1	29.7	(NA)	(NA)
1910.....	14,132	5,454	38.6	8,678	61.4	37.5	(NA)	(NA)
1920.....	17,600	7,189	40.8	10,411	59.2	24.5	(NA)	4.2
1930.....	23,300	10,721	46.0	12,579	54.0	32.4	25.0	4.0
1940.....	27,748	11,413	41.1	16,335	58.9	19.1	9.5	3.7
1950.....	37,105	19,802	53.4	17,304	46.6	33.7	25.8	3.4
1960 <sup>3</sup> .....	49,458	30,164	61.0	19,294	39.0	33.3	30.0	3.4
<b>Farm <sup>4</sup></b>								
1890.....	4,767	3,143	65.9	1,624	34.1	(NA)	(NA)	(NA)
1900.....	5,690	3,665	64.4	2,025	35.6	19.4	(NA)	(NA)
1910.....	6,124	3,847	62.8	2,276	37.2	7.6	(NA)	(NA)
1920.....	6,751	3,925	58.1	2,827	41.9	10.2	(NA)	4.7
1930.....	6,605	3,560	53.9	3,045	46.1	-2.2	-4.6	4.6
1940.....	7,107	3,783	53.2	3,324	46.8	7.6	0.2	4.3
1950.....	5,721	3,758	65.7	1,963	34.3	-19.5	-23.7	4.0
1960 <sup>3</sup> .....	3,566	2,633	73.8	933	26.2	-37.7	-41.7	3.8

NA Not available.

<sup>1</sup> Statistics on the number of occupied units are essentially comparable although identified by various terms—the term “family” applies to figures for 1930 and earlier; “occupied dwelling unit,” 1940 and 1950; and “occupied housing unit,” 1960. For 1890, 1910, and 1920, includes the small number of quasi-families; 1900 and 1930 represent private families only.

<sup>2</sup> Total population, which includes the population in group quarters and quasi-family groups, divided by the number of occupied units. This concept was used for consistency; population counts, exclusive of persons in group quarters and quasi-family groups, are not available for some of the census years.

<sup>3</sup> Includes Alaska and Hawaii.

<sup>4</sup> Not comparable with data for earlier censuses because of a basic change in definition of farm residence. See text, p. 2.

<sup>5</sup> For 1890 to 1920, “Farm” contains a small proportion of urban-farm families in addition to the rural-farm families.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, and unpublished data.

## No. 1122. HOUSING UNITS—SELECTED CHARACTERISTICS, BY STATES: 1960

[For definition of median, see headnote, table 5]

STATE	ALL HOUSING UNITS				OCCUPIED HOUSING UNITS					AVAILABLE VACANT HOUSING UNITS, RATE	
	Total (1,000)	Percent—			Total (1,000)	Percent—		Medians		Home-owner vacancy <sup>2</sup>	Rental vacancy <sup>3</sup>
		With all plumbing facilities <sup>1</sup>		Dilapidated or lacking 1 or more plumbing facilities		Owner occupied	Occu- pied by non-white	Rooms	Per- sons		
		Sound	Deteriorating								
United States.....	58,326	74.0	7.8	18.2	53,024	61.9	9.7	4.9	3.0	1.6	6.7
New England.....	3,522	78.7	7.6	13.7	3,116	59.1	2.3	5.2	3.0	1.4	5.4
Maine.....	365	61.2	7.2	31.5	280	66.5	0.4	5.4	3.0	1.6	6.8
N.H.....	224	72.8	8.7	18.4	180	65.1	0.3	5.3	2.9	1.7	6.1
Vt.....	136	68.4	10.7	20.9	111	66.0	0.1	5.8	3.0	1.5	6.2
Mass.....	1,691	81.1	8.0	11.0	1,535	55.9	2.3	5.3	3.0	1.2	5.0
R.I.....	287	78.7	6.6	14.7	257	54.5	2.0	5.1	2.9	1.2	6.6
Conn.....	819	84.7	6.7	8.6	753	61.9	3.8	5.1	3.1	1.5	5.0
Middle Atlantic.....	11,277	81.2	8.4	10.4	10,406	55.2	7.7	5.1	2.9	1.2	3.8
N.Y.....	5,696	81.3	8.9	9.8	5,249	44.8	8.3	4.7	2.8	1.2	3.2
N.J.....	1,999	85.2	7.0	7.9	1,806	61.3	7.5	5.2	3.1	1.3	3.9
Pa.....	3,582	78.7	8.5	12.7	3,351	68.3	7.0	5.6	3.0	1.1	5.5
E. N. Central.....	11,658	77.1	7.8	15.1	10,711	66.7	7.2	5.1	3.0	1.4	6.7
Ohio.....	3,041	77.6	8.2	14.2	2,853	67.4	7.3	5.3	3.0	1.5	6.6
Ind.....	1,503	73.0	8.4	18.5	1,388	71.1	5.1	4.9	3.0	1.3	7.0
Ill.....	3,276	78.0	7.4	14.6	3,085	57.8	9.4	4.9	2.9	1.2	5.6
Mich.....	2,549	78.6	8.1	13.2	2,239	74.4	8.4	5.3	3.1	1.5	9.7
Wis.....	1,289	75.0	6.9	18.1	1,140	68.6	1.8	5.3	3.0	1.2	5.4
W. N. Central.....	5,140	68.6	8.0	23.3	4,668	67.8	3.7	5.0	2.8	1.3	6.7
Minn.....	1,119	70.4	6.4	23.1	992	72.1	1.0	5.2	3.0	1.1	6.0
Iowa.....	905	69.8	9.2	21.0	841	69.1	0.9	5.4	2.8	1.0	5.4
Mo.....	1,491	65.8	7.3	26.9	1,360	64.3	8.2	4.7	2.7	1.6	7.1
N. Dak.....	195	60.6	5.6	33.8	173	68.4	1.3	5.1	3.3	1.4	5.3
S. Dak.....	216	61.5	7.6	31.0	195	67.2	2.4	5.2	3.1	1.1	5.6
Nebr.....	473	72.3	9.1	18.6	433	64.8	2.1	5.1	2.8	1.1	6.0
Kans.....	740	71.9	10.6	17.5	673	68.9	3.9	5.1	2.8	1.6	9.4
South Atlantic.....	8,033	67.2	6.4	26.4	7,267	61.0	19.0	4.9	3.1	1.9	7.6
Del.....	144	80.3	6.5	13.2	129	66.9	12.2	5.7	3.1	1.9	8.5
Md.....	935	81.4	6.7	11.8	863	64.5	14.3	5.5	3.2	1.8	6.2
D.C.....	203	84.9	6.4	8.7	252	30.0	44.1	4.0	2.3	1.2	3.8
Va.....	1,169	66.2	5.6	28.2	1,073	61.3	17.6	5.1	3.2	1.6	6.9
W. Va.....	574	56.7	9.2	34.1	521	64.3	4.5	5.1	3.2	1.2	7.9
N.C.....	1,323	57.1	6.4	36.5	1,205	60.1	20.8	4.9	3.3	1.1	6.4
S.C.....	678	54.3	6.4	39.4	604	57.3	29.3	4.8	3.4	1.3	7.7
Ga.....	1,170	58.4	6.7	34.9	1,070	56.2	24.6	4.8	3.2	1.6	5.9
Fla.....	1,777	78.3	5.6	16.1	1,550	67.5	14.5	4.7	2.6	3.5	12.7
E. S. Central.....	3,606	53.0	6.7	40.3	3,307	61.8	19.5	4.7	3.2	1.3	6.3
Ky.....	926	53.4	6.0	40.6	852	64.3	7.1	4.8	3.1	1.2	6.9
Tenn.....	1,084	57.2	7.0	35.8	1,003	63.7	14.7	4.8	3.1	1.5	6.2
Ala.....	967	53.5	7.1	39.4	884	59.7	25.8	4.8	3.2	1.6	6.8
Miss.....	629	44.5	6.6	48.9	568	57.7	36.5	4.6	3.2	1.0	4.8
W. S. Central.....	5,534	64.8	9.3	25.9	4,929	63.7	14.9	4.7	3.0	2.0	9.6
Ark.....	587	48.2	7.4	44.4	524	61.4	18.6	4.5	2.9	1.4	6.1
La.....	978	60.9	8.1	31.0	892	59.0	28.4	4.5	3.2	1.8	7.2
Okla.....	816	66.0	11.2	22.8	735	67.0	8.0	4.7	2.7	1.6	9.6
Tex.....	3,153	68.8	9.6	21.6	2,778	64.8	11.7	4.7	3.0	2.2	11.1
Mountain.....	2,227	74.9	9.0	16.1	1,976	65.2	3.8	4.6	3.1	1.8	9.1
Mont.....	233	68.0	10.1	21.9	202	64.0	2.3	4.5	2.9	1.4	9.3
Idaho.....	224	72.6	10.9	16.5	194	70.5	1.1	4.7	3.1	1.5	9.5
Wyo.....	113	71.9	10.5	17.5	99	62.2	1.6	4.5	3.0	1.2	8.0
Colo.....	595	76.4	8.2	15.4	520	63.8	2.7	4.8	2.9	1.7	8.1
N. Mex.....	282	69.5	8.2	22.3	251	65.3	5.7	4.5	3.4	1.6	9.2
Ariz.....	416	76.2	8.4	15.4	367	63.9	7.7	4.5	3.1	2.4	10.8
Utah.....	263	81.9	10.1	8.0	242	71.7	1.6	4.8	3.4	1.9	8.7
Nev.....	102	80.9	7.7	11.4	92	56.3	5.7	4.2	2.6	1.7	8.4
Pacific.....	7,331	83.9	7.6	8.5	6,645	60.2	7.4	4.7	2.7	2.1	8.8
Wash.....	1,010	78.4	9.8	11.8	894	68.5	2.9	4.9	2.7	1.8	11.8
Oreg.....	623	76.6	11.1	12.2	558	69.3	1.7	4.9	2.7	1.6	9.2
Calif.....	5,466	86.5	6.7	6.8	4,982	58.4	7.0	4.7	2.7	2.2	8.5
Alaska.....	67	57.7	9.3	32.9	57	48.3	16.3	3.7	3.1	1.8	6.8
Hawaii.....	166	69.6	10.2	20.2	153	41.1	64.1	4.5	3.7	1.1	4.1

<sup>1</sup> Includes hot and cold running water inside the structure, and flush toilet and bathtub or shower inside the structure for exclusive use of the people in the unit.<sup>2</sup> Base is total of units occupied by owners and available vacant units for sale.<sup>3</sup> Base is total of units occupied by renters and available vacant units for rent.Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, Vol. 1.

## No. 1123. HOUSING UNITS—SELECTED CHARACTERISTICS: 1940 TO 1960

[Number in thousands. Prior to 1960, excludes Alaska and Hawaii, except for heating equipment, 1950. Data for 1940 represent a complete census count; 1950 data for water supply, toilet facilities, and bathing facilities represent a complete census count; data for all other 1950 items and all 1960 items are based on a 5-, 20-, or 25-percent sample of housing units. For a measure of the sampling variability, see source.]

ITEM	1940		1950		1960	
	Number	Percent	Number	Percent	Number	Percent
All housing units with water supply.....	37,325	100.0	46,137	100.0	58,318	100.0
Hot and cold piped water inside structure.....	27,708	74.2	32,344	70.1	50,870	87.2
Only cold piped water inside structure.....			5,875	12.7	3,321	5.7
No piped water inside structure.....	9,617	25.8	7,918	17.2	4,128	7.1
All housing units with toilet facilities.....	37,325	100.0	46,137	100.0	58,318	100.0
Flush toilet, exclusive use.....	22,299	59.7	32,968	71.4	50,609	86.8
Flush toilet, shared.....	1,855	5.0	1,872	4.1	1,731	3.0
Other toilet facilities or none.....	13,172	35.3	11,302	24.5	5,978	10.3
All housing units with bathing facilities.....	37,325	100.0	46,137	100.0	58,318	100.0
Bathtub or shower, exclusive use.....	20,986	56.2	31,973	69.3	49,706	85.2
Bathtub or shower, shared.....	1,754	4.7	1,784	3.9	1,690	2.9
No bathtub or shower.....	14,585	39.1	12,379	26.8	6,922	11.9
All housing units with heating equipment.....	34,855	100.0	42,826	100.0	58,318	100.0
Steam and hot water.....	7,581	21.8	10,071	23.5	12,694	21.8
Warm air furnace, with ducts.....	5,844	16.8			18,355	31.5
Floor, wall, or pipeless furnace.....	1,218	3.5	11,508	26.9	6,528	11.2
Built-in electric units.....	(NA)	(NA)	(?)	(?)	745	1.3
Other means with flue.....	3 16,257	46.6	15,399	36.0	13,152	22.6
Other means without flue.....	(NA)	(NA)	2 5,268	12.3	5,825	10.0
Not heated.....	(NA)	(NA)	581	1.4	1,020	1.7
Occupied housing units with cooking fuel.....	34,855	100.0	42,826	100.0	53,022	100.0
Utility gas.....					27,296	51.5
Bottled, tank, or LP gas.....	17,026	48.8	22,085	51.6	0,491	12.2
Electricity.....	1,865	5.4	6,404	15.0	16,351	30.8
Other.....	15,963	45.8	10,921	25.5	2,884	5.4

NA Not available. 1 Represents all occupied units.

2 Built-in electric units included with "Other means without flue." 3 Heating stove.

Source: Dept. of Commerce, Bureau of the Census; Sixteenth Census Reports, 1940, *Housing*, Vol. II, and *U.S. Census of Housing: 1950*, Vol. I, and 1960, Vol. I.

## No. 1124. NUMBER AND PERCENT OF HOUSEHOLDS WITH SPECIFIED HOUSEHOLD APPLIANCES: 1963

[Households in thousands. Excludes Alaska and Hawaii. Based on multistage area probability sample of 5,169 households interviewed April 16-May 10.]

APPLIANCES	HOUSEHOLDS		APPLIANCES	HOUSEHOLDS	
	Number	Percent		Number	Percent
<b>Total.....</b>	<b>55,050</b>	<b>(X)</b>	<b>SMALL ELECTRICAL APPLIANCES</b>		
<b>MAJOR APPLIANCES</b>			Blanket.....	13,758	25.0
Air conditioner.....	7,739	14.1	Blenders.....	4,484	8.2
Room unit.....	7,240	13.2	Broom, upright.....	1,045	1.9
Central.....	962	1.8	Can opener.....	5,973	10.9
Clothes dryer.....	11,735	21.3	Coffemaker, automatic.....	27,165	49.4
Electric.....	8,210	14.9	Clock (excluding radio).....	34,968	63.5
Gas.....	3,523	6.4	Floor polisher.....	5,076	9.2
Combination washer-dryer.....	1,119	2.0	Fry pan skillet.....	21,673	39.4
Dishwasher.....	3,920	7.1	Hair dryer (hat box).....	8,719	15.8
Food disposer.....	4,789	8.7	Mixer.....	35,731	65.0
Freezer.....	11,197	20.3	Phonograph:		
Range, electric.....	19,047	34.6	Portable.....	11,576	21.0
Range, gas.....	33,914	61.6	Other.....	15,524	28.2
Refrigerator, electric.....	53,063	96.4	Radio (including clock).....	26,665	48.4
Refrigerator, gas.....	1,313	2.4	Radio, pocket/purse.....	15,089	27.4
Sewing machine, electric.....	25,408	46.2	Radio, other portable.....	21,247	38.6
Television:			Shaver.....	24,705	44.9
Black and white.....	50,001	90.8	Steam iron.....	35,754	65.0
Color.....	915	1.7	Toaster.....	42,356	76.9
Washing machine.....	39,886	72.4			
Automatic.....	26,194	47.6			
Wringer.....	14,535	26.4			
Vacuum cleaner.....	39,803	72.3			

X Not applicable.

Source: Cowles Magazine and Broadcasting, Inc.; *A National Study of Major Appliances* and *A National Study of Small Electrical Appliances*. Based on a survey conducted by Audits and Surveys Company, Inc., New York, N.Y., and presented by *Look* magazine, 1963. (Copyright.)

**No. 1125. HOUSING UNITS—TENURE, CONDITION AND PLUMBING, ROOMS, AND PERSONS PER ROOM: 1960**

ITEM	Total units	Units occupied by nonwhite persons	ITEM	Total units	Units occupied by nonwhite persons
<b>All housing units.....</b>	<b>58,323,672</b>	<b>5,152,658</b>	<b>ROOMS</b>		
<b>TENURE AND VACANCY STATUS</b>			Units with—		
Owner-occupied units.....	32,796,087	1,974,218	1 to 3 rooms.....	11,704,408	1,660,714
Percent of all occupied.....	61.9	38.3	4 to 6 rooms.....	37,632,315	3,062,214
Renter-occupied units.....	20,224,974	3,178,440	7 or more rooms.....	8,986,954	429,730
A available vacant units.....	1,974,918	(X)	Median rooms per unit.....	4.9	4.2
For rent.....	1,453,133	(X)	<b>PERSONS</b>		
For sale only.....	521,785	(X)	Occupied units with—		
Other vacant.....	3,327,693	(X)	1 person.....	7,405,473	811,082
<b>CONDITION AND PLUMBING</b>			2 persons.....	14,883,515	1,194,484
Sound.....	46,914,583	2,797,274	3 to 5 persons.....	24,712,632	2,025,541
With all plumbing facilities.....	42,605,333	2,217,045	6 or more persons.....	6,019,441	1,121,551
Lacking only hot water.....	504,450	580,229	Median rooms per unit.....	2.9	3.2
Lacking private toilet or bath or running water.....	3,804,800	1,470,261	<b>PERSONS PER ROOM</b>		
Deteriorating.....	8,384,162	626,900	Occupied units with—		
With all plumbing facilities.....	4,766,330	843,271	1 person or less.....	46,890,754	3,695,715
Lacking only hot water.....	353,127	885,123	More than 1 person.....	6,130,307	1,456,943
Lacking private toilet or bath or running water.....	3,264,705				
Dilapidated.....	3,024,927				

X Not applicable.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1960*, Vol. I, *Congressional District Data Book*, and unpublished data.

**No. 1126. LOW-RENT DWELLING UNITS SUPERVISED BY THE PUBLIC HOUSING ADMINISTRATION: 1950 to 1965**

[As of December 31. Includes Puerto Rico and Virgin Islands]

ITEM	1950 <sup>1</sup>	1955 <sup>1</sup>	1960		1964		1965		
			Total	Senior citizens <sup>2</sup>	Total	Senior citizens <sup>2</sup>	Total	Locally owned	Senior citizens <sup>2</sup>
<b>Total.....</b>	<b>302,146</b>	<b>489,744</b>	<b>593,286</b>	<b>18,912</b>	<b>714,264</b>	<b>81,212</b>	<b>737,920</b>	<b>737,486</b>	<b>98,802</b>
<b>CONSTRUCTION STATUS</b>									
Under management.....	201,736	413,558	478,153	1,133	576,714	23,050	605,873	605,439	36,815
Under construction.....	31,507	21,059	36,360	4,066	38,515	17,347	41,708	41,708	20,970
Not yet under construction.....	68,903	55,127	78,773	13,713	99,035	40,815	90,339	90,339	41,017
<b>PROGRAM</b>									
Public Law 171 <sup>3</sup> .....	101,657	270,335	385,924	18,912	509,403	81,212	535,195	535,195	98,802
Public Law 412 <sup>4</sup> .....	118,649	117,049	114,170	(X)	113,867	(X)	113,512	113,512	(X)
Public Law 671, 1940 <sup>5</sup> .....	50,594	49,356	46,843	(X)	46,653	(X)	46,547	46,547	(X)
Public Works Administration <sup>6</sup> .....	21,640	21,360	21,063	(X)	21,059	(X)	20,309	19,875	(X)
Farm labor camps <sup>7</sup> .....	9,606	9,037	883	(X)	583	(X)	-	-	(X)
Public Law 475, 1950 <sup>8</sup> .....	(X)	22,607	24,703	(X)	22,699	(X)	22,357	22,357	(X)

- Represents zero. X Not applicable.

<sup>1</sup> Excludes units which have been sold to mutual housing associations, limited dividend corporations (PWA), and homestead associations on which PHA has mortgages for collection.

<sup>2</sup> Covers units designed specifically for persons 62 years old or over or disabled.

<sup>3</sup> Housing Act of 1949. <sup>4</sup> U.S. Housing Act of 1937.

<sup>5</sup> Built for World War II defense workers, but majority converted to low-rent use in 1946.

<sup>6</sup> Built in mid-1930's and brought into low-rent program by Executive order.

<sup>7</sup> Built by Dept. of Agriculture for migrant farm workers; conveyed to PHA for low-rent use under terms of the Housing Act of 1950.

<sup>8</sup> Lanham Act permanent housing conveyed to local housing authorities for low-rent use during 1952 to 1957.

Source: Dept. of Housing and Urban Development, Public Housing Administration; *Annual Report*, and unpublished data.



# **No. 1127. RENTER-OCCUPIED NONFARM HOUSING UNITS—GROSS MONTHLY RENT: 1940 TO 1960**

[Number in thousands. Prior to 1960, excludes Alaska and Hawaii. Contract monthly rent is the rent at the time of enumeration, as contracted for by the renter, regardless of whether it includes furniture, heating fuel, electricity, cooking fuel, water, or other services sometimes supplied. Gross monthly rent is contract monthly rent plus the reported average monthly cost of utilities (electricity, gas, water) and other fuels (such as coal, oil, kerosene, and wood) if these items were paid for by the renter, in addition to contract monthly rent. In 1940 and 1950, if furniture was included in the contract rent, the reported estimated rent of the housing unit without furniture was used for the computation rather than the contract rent. For definition of median, see headnote, table 5]

RENT	1940		1950		1960	
	Number	Percent	Number	Percent	Number	Percent
<b>Total housing units</b> .....	16,335	(X)	17,304	(X)	19,294	(X)
Number reporting gross monthly rent.....	15,144	100.0	15,190	100.0	17,908	100.0
Less than \$20.....	4,753	31.4	1,374	9.0	320	1.8
\$20 to \$29.....	3,606	23.8	2,176	14.3	736	4.1
\$30 to \$39.....	3,029	20.0	3,123	20.6	1,221	6.8
\$40 to \$49.....	1,967	13.0	3,105	20.4	1,755	9.8
\$50 to \$59.....	925	6.1	2,302	15.2	2,245	12.5
\$60 to \$69.....	741	4.9	2,681	17.7	2,555	14.3
\$70 to \$79.....					2,350	13.1
\$80 to \$89.....					3,490	19.5
\$90 to \$99.....					1,693	9.5
\$100 to \$119.....	123	0.8	429	2.8	1,544	8.6
\$120 or more.....					\$71	(X)
Median rent.....	\$27	(X)	\$42	(X)	\$71	(X)
No cash rent.....	1,191	(X)	2,114	(X)	1,386	(X)

X Not applicable. <sup>1</sup> Includes units not reporting rental amount.

Source: Dept. of Commerce, Bureau of the Census; Sixteenth Census Reports, 1940, *Housing*, Vol. III, and *U.S. Census of Housing: 1950*, Vol. I, and 1960, Vol. I.

# **No. 1128. OWNER-OCCUPIED NONFARM HOUSING UNITS—VALUE: 1950 AND 1960**

[Number in thousands. Prior to 1960, excludes Alaska and Hawaii. Data restricted to 1-housing-unit structures without business and with only 1 housing unit on property. Value represents the amount which the owner-occupant estimated that the property, including the structure and its land, would sell for under ordinary conditions and not at forced sale. For definition of median, see headnote, table 5]

VALUE	1950		VALUE <sup>1</sup>	1960	
	Number	Percent		Number	Percent
<b>Total housing units</b> .....	15,878	(X)	<b>Total housing units</b> .....	26,172	(X)
Number reporting.....	14,974	100.0	Owner occupied.....	26,172	100.0
Less than \$4,000.....	3,117	20.8	Less than \$5,000.....	3,182	12.2
\$4,000 to \$5,999.....	2,392	16.0	\$5,000 to \$7,499.....	3,201	12.2
\$6,000 to \$9,999.....	4,731	31.6	\$7,500 to \$9,999.....	3,540	13.5
\$10,000 to \$14,999.....	2,995	20.0	\$10,000 to \$12,499.....	4,095	15.6
\$15,000 to \$19,999.....	1,008	6.7	\$12,500 to \$14,999.....	3,538	13.5
\$20,000 or more.....	731	4.9	\$15,000 to \$17,499.....	2,841	10.9
Median value.....	\$7,400	(X)	\$17,500 to \$19,999.....	1,882	7.2
Not reported.....	905	(X)	\$20,000 to \$24,999.....	1,900	7.3
			\$25,000 to \$34,999.....	1,227	4.7
			\$35,000 or more.....	762	2.9
			Median value.....	\$11,900	(X)

X Not applicable.

<sup>1</sup> 1960 data collected on basis of intervals rounded to nearest \$100 (\$5,000 to \$7,400, \$7,500 to \$9,900, etc.).

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1950*, Vol. I, and 1960, Vol. I.

# **No. 1129. NONFARM OWNER-OCCUPIED DWELLING UNITS—MORTGAGE STATUS: 1890 TO 1960**

[Prior to 1960, excludes Alaska and Hawaii. Through 1920, mortgage data are for owner-occupied units in all types of structures; for 1940 and 1950, for owner-occupied dwelling units in 1- to 4-dwelling unit structures without business; and for 1960, for properties with 1 to 4 dwelling units. See also *Historical Statistics, Colonial Times to 1957*, series N 190-194]

CENSUS YEAR	Owner-occupied units	Reporting mortgage status	MORTGAGED		Not mortgaged
			Number	Percent	
1890.....	2,923,671	2,923,671	800,933	27.7	2,113,738
1900.....	3,560,809	3,364,967	1,086,805	32.0	2,308,362
1910.....	5,245,380	5,109,916	1,701,062	33.3	3,408,854
1920.....	7,041,283	6,897,546	2,735,662	39.8	4,131,878
1940.....	11,413,036	10,611,259	4,804,778	45.3	5,806,481
1950.....	19,801,646	17,795,844	7,825,116	44.0	9,970,728
1960.....	27,862,329	27,862,329	15,816,132	56.8	12,046,197

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Housing: 1950*, Vol. I, and 1960, Vol. V.

**No. 1130. MORTGAGED OWNER-OCCUPIED NONFARM PROPERTIES—MARKET VALUE, MORTGAGE DEBT, AND INTEREST RATE: 1890 TO 1960**

[Prior to 1960, excludes Alaska and Hawaii. For definition of median, see headnote, table 5]

ITEM	ALL PROPERTIES		PROPERTIES WITH 1 DWELLING UNIT		
	1890	1920	1940	1950	1960
<b>MARKET VALUE AND OUTSTANDING MORTGAGE DEBT</b>					
Total number of properties.....1,000.....	810	2,855	4,026	7,062	14,454
Number reporting value and debt.....1,000.....	(NA)	2,736	3,745	7,027	14,454
Total value.....mil. dol.....	2,632	14,099	16,490	<sup>1</sup> 66,443	<sup>1</sup> 219,669
Total debt.....mil. dol.....	1,047	6,000	8,634	28,566	108,092
Average value.....dollars.....	3,260	4,938	4,403	9,422	15,200
Average debt.....dollars.....	1,293	2,102	2,305	4,051	7,500
Median ratio of debt to value.....	(NA)	(NA)	(NA)	43	53
<b>INTEREST RATE ON FIRST MORTGAGE LOAN (percent distribution)</b>					
Total properties.....	100.0	100.0	100.0	100.0	100.0
Less than 4.0 percent.....			0.8	2.0	0.8
4.0 percent.....			1.8	24.5	10.9
4.1 to 4.4 percent.....	1.7	2.0	0.1	0.4	3.0
4.5 percent.....			17.3	20.1	24.2
4.6 to 4.9 percent.....			(Z)	0.1	2.5
5.0 percent.....	11.0	8.3	19.8	22.4	15.1
5.1 to 5.9 percent.....	2.3	5.9	7.7	2.7	16.3
6.0 percent.....	44.3	58.1	44.6	24.8	22.4
6.1 to 6.9 percent.....	1.4	1.7	1.0	0.4	2.4
7.0 percent.....	11.5	12.1	4.2	1.0	1.1
7.1 to 7.9 percent.....	1.0	0.5	0.3	0.2	0.4
8.0 percent or more.....	26.8	11.3	2.5	1.3	0.9
Median interest rate.....	6.0	6.0	6.0	5.0	5.1

NA Not available. Z Less than 0.05 percent.

<sup>1</sup> Estimated from midpoints of distribution.

Source: Prior to 1960, Ratcliff, Rathbun, and Honnold, *Residential Finance, 1960*, John Wiley and Sons, New York, N.Y.; thereafter, Dept. of Commerce, Bureau of the Census, *U.S. Census of Housing: 1960*, Vol. V.

**No. 1131. RESIDENTIAL LOANS UNDERWRITTEN BY FHA AND VA: 1940 TO 1965**

[In millions of dollars. FHA-insured loans represent gross amount of insurance written; VA-guaranteed loans, gross amount of loans closed. Figures do not take account of principal repayments on previously insured or guaranteed loans. For VA-guaranteed loans, amounts by type are derived from data on number and average amount of loans closed. See also *Historical Statistics, Colonial Times to 1967*, series N 179-185]

LOAN	1940	1950	1955	1960	1961	1962	1963	1964	1965
<b>FHA-insured loans.....</b>	<b>991</b>	<b>4,343</b>	<b>3,807</b>	<b>6,293</b>	<b>6,546</b>	<b>7,184</b>	<b>7,216</b>	<b>8,130</b>	<b>8,689</b>
Home mortgages:									
New properties.....	688	1,637	1,269	2,197	1,783	1,849	1,664	1,608	1,705
Existing properties.....	175	856	1,816	2,403	2,982	3,421	3,905	4,965	5,760
Project type mortgages.....	13	1,157	76	711	926	1,079	843	895	591
Property improvement loans <sup>1</sup> .....	216	694	646	982	855	834	804	863	634
<b>VA-guaranteed loans <sup>2</sup>.....</b>	<b>(X)</b>	<b>3,072</b>	<b>7,156</b>	<b>1,985</b>	<b>1,829</b>	<b>2,652</b>	<b>3,045</b>	<b>2,846</b>	<b>2,652</b>
Home mortgages:									
New properties.....	(X)	1,865	4,582	1,554	1,170	1,357	1,272	1,023	876
Existing properties.....	(X)	1,202	2,564	428	656	1,292	1,770	1,821	1,774

X Not applicable. <sup>1</sup> Not ordinarily secured by mortgages.

<sup>2</sup> Includes a small amount of alteration and repair loans, not shown separately; only such loans in amounts of more than \$1,000 need be secured.

Source: Board of Governors of the Federal Reserve System. Current data in *Federal Reserve Bulletin*.

# No. 1132. HOME LOANS GUARANTEED BY VA—PERCENT DISTRIBUTION, BY SELECTED CHARACTERISTICS: 1955 TO 1965

[Covers veterans regardless of place of residence. Based on complete count of loans]

ITEM	NEW HOMES				EXISTING HOMES			
	1955	1960	1964	1965	1955	1960	1964	1965
<b>PURCHASE PRICE</b>								
All price ranges.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$8,000.....	2.1	0.1	0.1	0.1	18.4	15.7	4.4	4.2
\$8,000 to \$9,999.....	15.0	1.8	1.2	0.9	20.3	17.1	7.5	6.0
\$10,000 to \$11,999.....	29.8	11.5	6.2	4.2	22.2	15.4	12.2	10.4
\$12,000 to \$14,999.....	38.4	39.1	24.7	19.8	23.7	25.4	24.3	21.8
\$15,000 to \$19,999.....	13.0	39.8	45.6	43.8	12.1	18.0	34.8	35.2
\$20,000 and over.....	1.7	7.7	22.2	31.2	3.3	5.4	16.8	22.4
Average purchase price.....	\$12,476	\$15,327	\$17,235	\$18,338	\$11,343	\$12,238	\$15,418	\$16,371
<b>MORTGAGE MATURITY</b>								
All maturities.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 25 years.....	5.3	1.4	0.6	0.9	50.5	43.0	10.1	9.1
25 years.....	32.7	3.9	2.0	2.3	37.6	31.3	18.0	17.0
26 to 30 years.....	62.0	94.7	97.4	96.8	11.9	25.7	71.9	73.9
<b>DOWNPAYMENT STATUS</b>								
All loans.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
With downpayments.....	46.6	30.2	22.2	24.4	80.3	66.5	32.3	31.1
With no downpayments.....	53.4	69.8	77.8	75.6	19.7	33.5	67.7	68.9

Source: Veterans Administration; *Loan Guaranty Highlights*.

# No. 1133. CHARACTERISTICS OF VA-GUARANTEED HOME LOANS, BY MONTHLY INCOME OF VETERAN HOME PURCHASERS: 1965

[Based on a 20-percent sample of loan applications submitted to the Veterans Administration for prior approval in 1965. Such loans currently constitute about 84 percent of all primary VA-guaranteed home loans]

ITEM	All incomes	MONTHLY INCOME (AFTER TAXES)				
		Less than \$300	\$300 to \$399	\$400 to \$499	\$500 to \$699	\$700 and over
New and existing homes (averages):						
Liquid assets of purchaser.....	\$2,350	\$800	\$985	\$1,465	\$2,485	\$5,225
Purchase price.....	\$16,830	\$9,445	\$12,015	\$14,665	\$18,310	\$23,240
Loan amount.....	\$16,460	\$9,350	\$11,890	\$14,465	\$17,890	\$22,440
Downpayment.....	\$370	\$95	\$125	\$220	\$420	\$800
Percent of purchase price.....	2.2	1.0	1.0	1.5	2.3	2.1
Percent of liquid assets.....	15.7	11.8	12.8	15.0	17.0	15.3
Monthly income after taxes.....	\$546	\$270	\$359	\$449	\$584	\$862
Monthly housing expense <sup>1</sup> .....	\$156	\$94	\$116	\$140	\$170	\$208
Percent of income after taxes.....	28.6	34.8	32.3	31.2	29.1	24.1
Percent of loans.....	100.0	100.0	100.0	100.0	100.0	100.0
New homes.....	32.2	13.1	25.4	30.8	34.4	39.1
Existing homes.....	67.8	86.9	74.6	69.2	65.6	60.9

<sup>1</sup> Repayments of mortgage principal and interest with an additional allowance for taxes, insurance, heat, utilities and maintenance.

Source: Veterans Administration; unpublished data.

# No. 1134. ESTIMATED NONFARM REAL ESTATE FORECLOSURES: 1930 TO 1965

[Excludes Alaska and Hawaii. Based on data from approximately 1,700 counties, cities, townships, or other government divisions. Represents number of properties acquired through foreclosure proceedings. Excludes voluntary deeds of sale in lieu of foreclosure and defaults on real estate contracts. See also *Historical Statistics, Colonial Times to 1957*, series N 189]

YEAR	Fore- closures	YEAR	Fore- closures	YEAR	Fore- closures
1930.....	150,000	1955.....	28,520	1961.....	73,074
1935.....	228,713	1957.....	34,204	1962.....	86,444
1940.....	75,556	1958.....	42,367	1963.....	98,195
1945.....	12,706	1959.....	44,075	1964.....	108,620
1950.....	21,537	1960.....	51,353	1965.....	116,664

Source: Federal Home Loan Bank Board; *Savings and Home Financing Source Book*.

# No. 1135. MORTGAGE DEBT OUTSTANDING, BY TYPE OF PROPERTY AND HOLDER: 1940 TO 1965

[In billions of dollars. As of December 31]

YEAR	ALL PROPERTIES			NONFARM						FARM	
	All holders	Financial institutions <sup>1</sup>	Other holders	All holders	1- to 4-family houses		Multifamily and commercial properties <sup>2</sup>		All holders	Financial institutions <sup>1</sup>	
					Total	Financial institutions <sup>1</sup>	Total	Financial institutions <sup>1</sup>			
1940.....	36.5	19.5	16.9	30.0	17.4	10.2	12.6	7.8	6.5	1.5	
1945.....	35.5	21.0	14.5	30.8	18.6	12.2	12.2	7.4	4.8	1.3	
1950.....	72.8	51.7	21.1	66.7	45.2	35.4	21.6	14.0	6.1	2.3	
1954.....	113.7	85.7	28.0	105.4	75.7	62.5	29.7	19.9	8.2	3.3	
1955.....	129.9	99.3	30.6	120.9	88.2	73.8	32.6	21.8	9.0	3.6	
1956.....	144.5	111.2	33.3	134.6	99.0	83.4	35.6	23.9	9.8	3.9	
1957.....	156.5	119.7	36.7	146.1	107.6	89.9	38.5	25.8	10.4	4.0	
1958.....	171.8	131.5	40.3	160.7	117.7	98.5	43.0	28.8	11.1	4.2	
1959.....	190.8	145.5	45.4	178.7	130.9	109.2	47.9	31.8	12.1	4.5	
1960.....	206.8	157.6	49.2	194.0	141.3	117.9	52.7	35.0	12.8	4.7	
1961.....	226.3	172.6	53.7	212.4	153.1	128.2	59.3	39.4	13.9	5.0	
1962.....	251.6	192.5	59.2	236.4	166.5	140.4	69.9	46.6	15.2	5.5	
1963.....	281.2	217.1	64.1	264.4	182.2	156.0	82.2	54.9	16.8	6.2	
1964.....	311.6	241.0	70.6	292.7	197.6	170.4	95.1	63.6	18.9	7.0	
1965 (prel.).....	341.9	264.1	77.8	320.7	212.9	184.1	107.8	72.3	21.2	7.8	

<sup>1</sup> Comprises commercial banks (including nondeposit trust companies but not trust departments), mutual savings banks, life insurance companies, and savings and loan associations.<sup>2</sup> Derived figures, which include negligible amount of farm loans held by savings and loan associations.Source: Board of Governors of the Federal Reserve System. Current data in *Federal Reserve Bulletin*.

# No. 1136. MORTGAGE ACTIVITY OF LIFE INSURANCE COMPANIES AND SAVINGS AND LOAN ASSOCIATIONS: 1940 TO 1965

[In millions of dollars. Savings and loan associations data include Puerto Rico and Guam]

ITEM	1940	1945	1950	1955	1960	1962	1963	1964	1965 (prel.)
<b>LIFE INSURANCE COMPANIES</b>									
Loans acquired.....	(NA)	976	4,894	6,623	6,086	7,478	9,172	10,432	10,942
Nonfarm.....	(NA)	(NA)	4,532	6,108	5,622	6,859	8,306	9,385	9,785
FHA insured.....	(NA)	(NA)	1,486	971	1,401	1,355	1,598	1,811	1,716
VA guaranteed.....	(X)	(NA)	938	1,839	291	469	678	674	539
Other.....	(NA)	(NA)	2,108	3,298	3,930	5,035	6,030	6,900	7,530
Farm.....	(NA)	(NA)	362	515	464	619	866	1,047	1,157
Loans outstanding (end of year) ..	5,972	6,637	16,102	29,445	41,771	46,902	50,544	55,152	60,021
Nonfarm.....	5,073	5,890	14,775	27,172	38,789	43,502	46,752	50,848	55,197
FHA insured.....	668	1,394	4,573	6,395	9,032	10,176	10,756	11,484	12,094
VA guaranteed.....	(X)	(NA)	2,026	6,074	6,901	6,395	6,401	6,403	6,292
Other.....	4,405	4,466	8,176	14,703	22,856	26,931	29,595	32,961	36,811
Farm.....	899	776	1,327	2,273	2,982	3,400	3,792	4,304	4,824
<b>SAVINGS AND LOAN ASSOCIATIONS</b>									
Loans made <sup>1</sup> .....	1,200	1,913	5,237	11,255	14,304	20,754	24,735	24,505	23,847
New construction.....	399	181	1,767	3,984	4,678	5,979	7,039	6,515	5,922
Home purchase.....	426	1,358	2,246	5,155	6,132	8,524	9,920	10,397	10,697
Loans outstanding (end of year) <sup>2</sup> ..	4,125	5,376	13,657	31,408	60,070	78,770	90,944	101,333	110,202
FHA insured.....	(NA)	(NA)	848	1,404	3,524	4,476	4,696	4,894	5,141
VA guaranteed.....	(X)	(NA)	2,973	5,883	7,222	7,010	6,960	6,683	6,391
Conventional <sup>2</sup> .....	(NA)	(NA)	9,836	24,121	49,324	67,284	79,288	89,756	98,670

NA Not available. X Not applicable.

<sup>1</sup> Includes loans for other purposes (repair, additions and alterations, refinancing, etc.).<sup>2</sup> Beginning 1960, includes shares pledged against mortgage loans.Source: Board of Governors of the Federal Reserve System. Current data in *Federal Reserve Bulletin*.

# No. 1137. NONFARM MORTGAGES RECORDED—MORTGAGES OF \$20,000 OR LESS, BY TYPE OF MORTGAGEE: 1940 TO 1964

[Number in thousands; money figures in millions of dollars, except averages. Excludes Alaska and Hawaii. Estimates based on recordings in 450 counties and similar political subdivisions, which contain over one-half of the 1-family nonfarm dwelling units. See also *Historical Statistics, Colonial Times to 1957*, series N 173-178]

MORTGAGEE	1940	1950	1955	1959	1960	1961	1962	1963	1964
<b>Total number</b> .....	<b>1,456</b>	<b>3,032</b>	<b>3,913</b>	<b>3,782</b>	<b>3,472</b>	<b>3,529</b>	<b>3,696</b>	<b>3,891</b>	<b>3,893</b>
Savings and loan associations.....	503	936	1,373	1,378	1,260	1,350	1,439	1,536	1,450
Insurance companies.....	68	227	191	125	105	90	92	101	109
Commercial banks.....	316	628	783	704	574	610	871	711	739
Mutual savings banks.....	45	165	210	171	149	162	175	184	193
Individuals.....	340	610	725	757	756	686	652	644	632
Miscellaneous mortgagees.....	184	466	631	647	623	631	667	715	770
<b>Total amount</b> .....	<b>4,031</b>	<b>16,179</b>	<b>28,484</b>	<b>32,235</b>	<b>29,341</b>	<b>31,157</b>	<b>34,187</b>	<b>36,925</b>	<b>36,921</b>
<b>Average amount</b> .....dol..	<b>2,769</b>	<b>5,335</b>	<b>7,279</b>	<b>8,522</b>	<b>8,450</b>	<b>8,829</b>	<b>9,251</b>	<b>9,489</b>	<b>9,484</b>
Savings and loan associations.....	1,284	5,060	10,452	13,094	12,158	13,662	15,144	16,716	15,750
Insurance companies.....	334	1,618	1,932	1,523	1,318	1,160	1,212	1,339	1,408
Commercial banks.....	1,006	3,365	5,617	5,832	4,520	4,997	5,851	6,354	6,656
Mutual savings banks.....	170	1,064	1,858	1,780	1,557	1,741	1,957	2,061	2,182
Individuals.....	640	2,299	3,362	3,946	4,001	3,642	3,560	3,541	3,528
Miscellaneous mortgagees.....	598	2,774	5,265	6,060	5,787	5,956	6,462	6,914	7,388

Source: Federal Home Loan Bank Board; *Savings and Home Financing Source Book*, and unpublished data.

# No. 1138. URBAN PLANNING ASSISTANCE PROGRAM—SUMMARY: 1954 TO 1965

[Includes Puerto Rico, Guam, and Virgin Islands. Planning grants are made to State planning agencies, metropolitan, regional, or other qualified planning agencies]

ITEM	Cumulative total	NET CHANGE						
		1954-1959 <sup>1</sup>	1960	1961	1962	1963	1964	1965
Total grants approved <sup>2</sup> .....\$1,000.....	99,973	8,662	4,738	8,884	19,755	17,707	19,431	20,796
Disbursed.....\$1,000.....	69,789	5,811	3,083	3,571	10,243	13,446	16,463	17,172
Planning assistance for small areas: <sup>3</sup>								
Projects approved.....	1,449	170	142	144	249	246	226	272
Different localities involved.....	4,303	1,012	452	458	683	621	526	551
Planning assistance for localities in redevelopment areas: <sup>4</sup>								
Projects approved.....	269	(X)	(X)	26	72	56	57	58
Different localities involved.....	731	(X)	(X)	120	256	129	111	115
Planning assistance for metropolitan and regional areas:								
Projects approved.....	408	117	44	33	40	52	61	61
Different areas involved.....	194	89	13	21	9	20	20	22
Statewide and interstate planning: <sup>5</sup>								
Projects approved.....	95	(X)	12	13	17	14	18	21
Different States involved.....	38	(X)	10	6	7	4	6	5
Planning assistance for other areas: <sup>6</sup>								
Projects approved.....	39	5	3	1	4	1	1	24
Different areas involved.....	43	5	5	2	5	-	1	25
Advisory services to small communities: <sup>7</sup>								
Projects approved.....	26	(X)	(X)	(X)	(X)	1	16	9
Different States involved.....	21	(X)	(X)	(X)	(X)	1	12	8

- Represents zero. X. Not applicable.

<sup>1</sup> First approval under this program took place in November 1954.

<sup>2</sup> Represents the Federal contribution to defray the costs of urban planning authorized by the program.

<sup>3</sup> Cities, counties, and other areas with population of less than 50,000.

<sup>4</sup> Program started in 1961. <sup>5</sup> Program started in 1960.

<sup>6</sup> Areas with population of 50,000 or more, major disaster areas, and Federally impacted areas.

<sup>7</sup> Program started in 1963.

Source: Dept. of Housing and Urban Development, Urban Renewal Administration; *Annual Report*.

# Urban Renewal Program

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## No. 1139. URBAN RENEWAL PROGRAM—SUMMARY: 1949 TO 1965

[Money figures in thousands of dollars. Includes Puerto Rico, Guam, and Virgin Islands. Represents financial assistance to localities under Title I of the Housing Act of 1949, as amended. Planning advances, loans, and grants are made to local agencies by the Urban Renewal Administration primarily for slum clearance and redevelopment projects, and for conservation or rehabilitation projects]

ITEM	Cumulative total	NET CHANGE						
		1949-1959 <sup>1</sup>	1960	1961	1962	1963	1964	1965
<b>Grant authority reserved<sup>2</sup></b> .....	4,984,961	1,390,866	484,189	606,048	552,630	671,640	607,426	672,162
Urban renewal activities.....	4,952,969	1,388,648	480,953	602,581	547,523	667,558	601,286	664,420
Community renewal programs <sup>3</sup> .....	23,117	(X)	2,664	2,571	4,860	3,606	5,656	3,760
Demolition grants <sup>4</sup> .....	3,058	(X)	(X)	(X)	(X)	(X)	(X)	3,058
Demonstration grants.....	5,817	2,218	572	896	247	476	484	924
<b>URBAN RENEWAL PROJECTS<sup>5</sup></b>								
Localities participating.....	796	417	58	65	96	76	53	31
Total projects.....	1,699	689	149	174	198	192	143	154
Completed.....	227	26	15	24	21	32	56	53
Active.....	1,472	663	134	150	177	160	87	101
Execution.....	894	365	79	74	70	83	125	98
Planning.....	578	298	55	76	107	77	-38	3
Capital grants:								
Grants disbursed to projects.....	1,398,490	233,294	131,524	147,463	188,243	176,258	243,972	277,736
Grants disbursed to repay advances.....	12,699	(X)	3,441	1,109	841	1,269	2,393	3,646
Project loans: <sup>6</sup>								
Contracts authorized (net).....	4,288,741	1,164,174	379,579	380,680	369,052	372,480	764,075	858,701
Federal loans:								
Disbursed.....	1,168,498	274,311	108,892	101,082	130,152	117,152	228,538	208,371
Outstanding.....	194,623	74,795	-10,122	13,204	46,730	-28,878	80,928	17,906
Non-Federal "guaranteed" loans: <sup>7</sup>								
Gross amount.....	2,594,834	521,008	295,556	335,147	231,049	358,023	356,229	497,822
Outstanding.....	1,493,579	378,299	207,026	234,939	82,837	209,134	117,427	263,917
Planning advances: <sup>8</sup>								
Contracts authorized (net).....	206,100	51,105	15,389	19,802	24,926	30,534	29,802	34,542
Disbursed.....	159,000	37,678	10,959	13,894	17,620	23,634	26,104	29,111
Outstanding.....	62,265	16,215	1,202	6,152	9,244	13,502	9,129	6,821
<b>COMMUNITY RENEWAL PROGRAMS<sup>9</sup></b>								
Localities participating.....	146	(X)	7	34	39	27	17	22
Grants disbursed.....	14,613	(X)	235	942	2,450	3,579	4,091	3,316
<b>DEMOLITION GRANTS<sup>4</sup></b>								
Projects approved.....	3	(X)	(X)	(X)	(X)	(X)	(X)	3
Grants disbursed.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
<b>DEMONSTRATION GRANTS</b>								
Projects approved.....	66	28	6	8	3	2	7	12
Grants disbursed.....	3,730	1,439	348	352	425	351	375	440

X Not applicable.

<sup>1</sup> First approval under this program took place in March 1950.

<sup>2</sup> Represents Federal Government's contribution (a) to net costs of local slum clearance and urban renewal projects, preparation of community renewal programs, and demonstrations, (b) to reimburse local public agencies for certain costs of relocating displaced families, individuals, and business concerns, and (c) to repay planning advances not collected from terminated projects.

<sup>3</sup> First approval under this program took place in August 1960.

<sup>4</sup> First approval under this program took place in November 1965.

<sup>5</sup> Includes applications under preparation within general neighborhood renewal plans.

<sup>6</sup> Represents Federal assistance to finance expenditures involved in execution of slum clearance and urban renewal projects. Temporary loan contracts may be used by local public agencies to borrow funds for project expenditures from non-Federal sources.

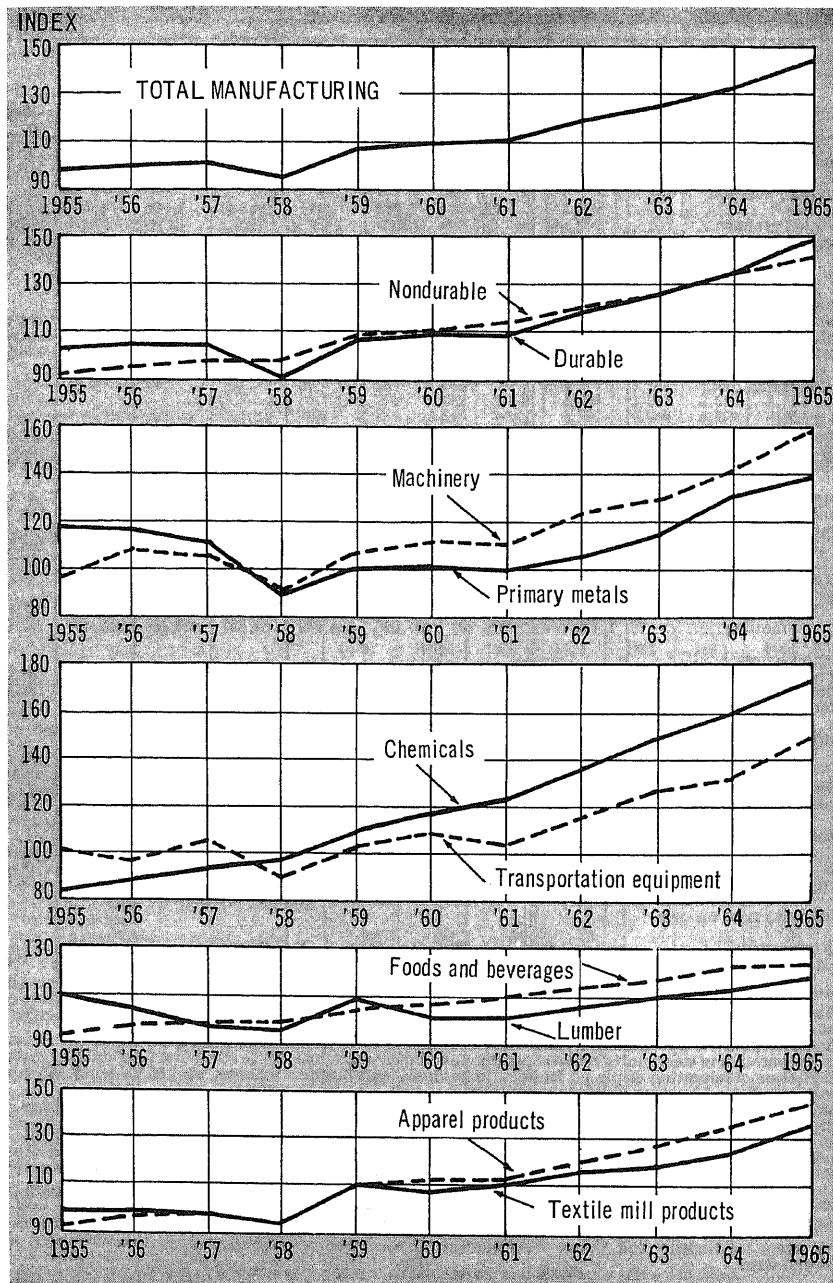
<sup>7</sup> Excludes amounts borrowed to refinance previous borrowings.

<sup>8</sup> Represents Federal assistance for conduct of surveys and preparation of project plans.

Source: Dept. of Housing and Urban Development, Urban Renewal Administration; *Annual Report*, and unpublished data.

FIG. XLVII. INDUSTRIAL PRODUCTION INDEXES: 1955 TO 1965

[1957-59=100. See table 1141]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from Board of Governors of the Federal Reserve System.

## Section 29

### Manufactures

This section presents measures of the manufacturing segment of the economy and its component inputs and outputs. The input data include figures for establishments; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; and water use. The output data include figures for value and quantity of production and shipments; and value added by manufacture. Both types of data are shown for manufacturing as a whole, for major product groups, and for specific selected products.

The principal sources of these data are the reports of the Census of Manufactures conducted periodically by the Bureau of the Census; the same agency's *Annual Survey of Manufactures*; and its *Current Industrial Reports* series which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. Reports on current activities of industries, or current movements of individual commodities, are also compiled by such government agencies as Bureau of Labor Statistics, Statistical Reporting Service of the Department of Agriculture, Business and Defense Services Administration, Fish and Wildlife Service, Tariff Commission, and Internal Revenue Service; and by private research or trade associations such as the American Iron and Steel Institute, the National Cannery Association, and the National Association of Hosiery Manufacturers.

Data on financial operations and intercorporate relations of manufacturing corporations are collected from time to time by the Securities and Exchange Commission, the Tariff Commission, and the Federal Trade Commission. Financial statistics for certain manufacturing industries in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are summarized and published for the leading corporations that are registered with the Securities and Exchange Commission. The Tariff Commission publishes commodity surveys which cover economic and competitive aspects of production, distribution, and international trade in selected important industries. Each survey deals with several products which are related because of the raw materials consumed, or because of their competitive uses. The Federal Trade Commission has made several comprehensive studies of individual industries.

**Censuses and annual surveys.**—The first Census of Manufactures covered the year 1809. Thereafter, a census was taken at 10-year intervals to 1899, with the exception of 1829. It was conducted at 5-year intervals from 1904 through 1919, and at 2-year intervals from 1921 through 1939. It was suspended during the war period until the 1947 Census. Thereafter, censuses were taken covering 1954, 1958, and 1963. Recent legislation provides for a quinquennial census to be conducted for years ending in "2" and "7." Thus, the next census will be conducted in 1968 covering manufactures during 1967.

The *Annual Survey of Manufactures*, conducted for the first time in 1949, carries forward, for the intercensal years, measures of manufacturing activity covered in detail by the quinquennial Census of Manufactures. It provides statistics on employment, payrolls, value added by manufacture, inventories, and new capital expenditures for industry groups, individual industries, geographic divisions, States, and large standard metropolitan statistical areas.



The most recent annual survey is based on a sample of about 60,000 of an approximate total of 300,000 manufacturing establishments. It comprises all large plants, which account for approximately two-thirds of total manufacturing employment in the United States, and a representative selection of the more numerous small plants. Government-owned and -operated establishments are excluded.

**Establishments and classification.**—The 1947, 1954, 1958, and 1963 Censuses of Manufactures covered operating manufacturing establishments as defined in the *Standard Industrial Classification Manual* issued by the Bureau of the Budget. Reports were required from all establishments employing one or more persons at any time during the census year. Each of the establishments tabulated was classified in one of the more than 400 manufacturing industries as defined by the Standard Industrial Classification system. This system defines an industry as a number of establishments producing a single product or a closely related group of products. An establishment is classified in a particular industry if its production of this product or product group exceeds in value its production of any other product group. In a few instances, the industry classification of an establishment is determined not only by its product group but also by the processes employed in making the products.

A revised edition of the *Standard Industrial Classification Manual*, which made extensive modifications in some of the industry groupings, was issued in 1957. Final reports of the 1958 Census of Manufactures present data tabulated on the basis of the new classifications and include 1954 Census data converted to the new SIC to effect comparability for the two years. Because of the revisions in the classification system, 1954, 1958, and 1963 Census data for some industries and industry groups are not comparable with figures for prior years.

While some establishments produce only the products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect not only the primary activities of the establishments in that industry but also activities of a secondary nature. For this reason the industry statistics usually cannot be directly related to statistics on the total shipments of products primary to the industry.

The 1947, 1954, 1958, and 1963 Censuses were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical with the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for the annual surveys as for the Census of Manufactures. Consequently, these series may be considered comparable, except for the changes brought about by the 1957 revisions in the industry classification system noted above. However, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the fifteenth of March, May, August, and November, whereas for 1947 such averages were based on 12 monthly employment figures. The 1954 figures are an average of reported employment totals for the four specified months, except for highly seasonal industries, where a 12-month average was obtained. For 1958 and 1963, averages of production workers for the four specified months plus the March figure for "all other employees" were used for all industries. Figures for 1947 exclude data for central administrative offices and auxiliary establishments of manufacturing concerns, which are included in the statistics for later years.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

## Technical Note—Annual Survey of Manufactures

The annual survey estimates vary from the totals that would have been obtained from a complete canvass of all manufacturing establishments. The relative magnitude of this sampling variation is given in the table column captioned "Standard error." The standard error should be interpreted to mean that the sample estimates will differ from complete canvass totals by *less than*: (1) The percentage shown in approximately 2 cases out of 3; (2) twice the percentage shown in approximately 19 cases out of 20; and (3) three times the percentage shown in almost every case. It should be noted that standard errors are shown only for selected items. The standard errors of other measures are usually of the same general magnitude.

In making any study of the trend, it is important to take account of the effect of the sampling variation on the apparent increase or decrease shown between years. In addition to sampling errors, individual figures may be subject to biases arising from undetected response or procedural errors which are not reflected in the "standard errors." Figures are normally withheld from publication in the original source volumes if (1) the standard error of the estimate exceeds 15 percent, or (2) survey estimates are inconsistent with other Census series and related data. Any estimate which can be derived by subtraction of one published figure from another may have a standard error considerably in excess of 15 percent.

## No. 1140. MANUFACTURES—SUMMARY: 1947 TO 1964

[Prior to 1958, excludes Alaska and Hawaii. Except as noted, figures are estimates based on sample; see text pp. 763-765. Covers all establishments employing 1 or more persons at any time during year. See also *Historical Statistics, Colonial Times to 1957*, series P 1-8]

YEAR	OPERATING ESTABLISHMENTS		Pro-prietors and firm members	ALL EMPLOYEES <sup>1</sup>		PRODUCTION WORKERS			Value added by manufac-ture <sup>3</sup>
	Total	With 20 or more employees		Number (average for year) <sup>2</sup>	Salaries and wages	Number (average for year)	Man-hours	Wages	
1947 <sup>4</sup>	240, 807	(NA)	1,000	1,000	Mil. dol.	1,000	Millions	Mil. dol.	Mil. dol.
1950	260, 000	(NA)	189	14, 294	39, 696	11, 918	24, 316	30, 244	74, 290
1953	285, 000	(NA)	(NA)	14, 770	47, 893	11, 779	23, 717	34, 600	89, 750
1954 <sup>4</sup>	286, 814	90, 470	198	17, 093	69, 590	13, 501	27, 066	48, 979	121, 659
				16, 126	65, 977	12, 373	24, 341	44, 595	117, 032
1955	283, 047	(NA)	(NA)	16, 819	72, 126	12, 957	25, 909	49, 230	135, 023
1956	(NA)	(NA)	(NA)	17, 177	77, 048	13, 194	29, 099	52, 054	144, 909
1957	(NA)	(NA)	(NA)	17, 105	79, 354	12, 842	25, 218	52, 582	147, 838
1958 <sup>4</sup>	<sup>5</sup> 303, 405	<sup>5</sup> 97, 593	186	16, 025	78, 326	11, 696	22, 672	49, 575	141, 500
1959	(NA)	(NA)	(NA)	16, 662	85, 642	12, 265	24, 431	54, 681	161, 315
1960	(NA)	(NA)	(NA)	16, 763	88, 087	12, 212	24, 180	55, 547	164, 003
1961	(NA)	(NA)	(NA)	16, 331	88, 128	11, 778	23, 281	54, 743	164, 179
1962	(NA)	(NA)	(NA)	16, 766	94, 261	12, 130	24, 273	59, 129	170, 295
1963 <sup>4</sup>	<sup>5</sup> 311, 784	<sup>5</sup> 102, 272	(NA)	16, 949	99, 739	12, 216	24, 510	61, 954	191, 035
1964	(NA)	(NA)	(NA)	17, 280	106, 034	12, 431	25, 326	65, 761	205, 963

NA Not available.

<sup>1</sup> Includes data for employees of manufacturing establishments engaged in distribution and construction work. Beginning 1950, includes administrative offices, and units auxiliary to manufacturing.

<sup>2</sup> Data for all industries in 1950-1953 and 1955-1957, and for most industries in 1954, are based on pay periods ending nearest 15th of March, May, August, and November. For 1947, and industries of a seasonal type in 1954, data represent average of 12 monthly figures.

<sup>3</sup> Unadjusted through 1953; thereafter, adjusted. For definitions, see footnote 2, table 1142.

<sup>4</sup> Census data. <sup>5</sup> Includes administrative offices and auxiliary units.

Source: Dept. of Commerce, Bureau of the Census; 1947, 1954, 1958, and 1963 Censuses of Manufactures reports and *Annual Survey of Manufactures*.

## No. 1141. INDUSTRIAL PRODUCTION—INDEXES, BY INDUSTRY: 1950 TO 1966

[1957-59=100. Quarterly data adjusted for seasonal variation. Based on 1957 Standard Industrial Classification. See *Historical Statistics, Colonial Times to 1867*, series P 11 and P 147-168, for indexes on 1947-49 base]

YEAR AND QUARTER	Total	MANUFACTURING										
		Total	Durable manufactures									Misc. man- ufac- tures
			Total	Pri- mary metals	Fab- ricated metal prod- ucts	Ma- chin- ery	Trans- porta- tion equip- ment	Instru- ments and re- lated prod- ucts	Clay, glass, and stone prod- ucts	Lum- ber and prod- ucts	Fur- niture and fix- tures	
1950.....	75	76	74	100	85	73	56	57	81	98	79	89
1954.....	86	86	88	91	90	88	84	83	84	100	84	90
1955.....	97	97	102	118	98	97	102	89	96	110	95	101
1956.....	100	100	104	116	99	107	97	95	100	105	98	104
1957.....	101	101	104	112	102	104	106	98	98	96	97	99
1958.....	94	93	90	88	93	89	90	92	93	96	93	94
1959.....	106	106	106	100	106	107	104	110	108	109	111	107
1960.....	109	109	109	101	108	111	108	117	108	102	116	111
1961.....	110	110	107	99	107	110	104	116	106	101	115	113
1962.....	118	119	118	105	117	124	118	123	111	106	127	122
1963.....	124	125	125	113	123	129	127	130	118	109	133	125
1964.....	132	133	134	129	133	141	131	136	126	113	143	133
First quarter.....	129	129	129	118	129	135	131	133	124	115	138	130
Second quarter.....	132	132	133	126	131	139	134	135	125	113	141	132
Third quarter.....	134	135	136	133	134	143	134	137	126	113	144	133
Fourth quarter.....	135	136	136	136	136	148	125	140	128	109	149	137
1965 (prel.).....	143	145	148	138	148	160	149	151	134	117	157	146
First quarter.....	140	141	143	139	144	152	142	145	131	116	153	141
Second quarter.....	142	143	147	142	147	157	147	147	131	115	156	143
Third quarter.....	144	146	150	142	148	161	150	153	133	116	156	146
Fourth quarter.....	147	149	152	123	154	168	158	160	136	121	162	153
1966: First quarter (prel.).....	151	154	159	133	160	176	164	170	141	126	167	155

YEAR AND QUARTER	MANUFACTURING—Continued											Min- ing, total	Util- ities, total	
	Nondurable manufactures													
	Total	Tex- tile mill prod- ucts	Ap- parel prod- ucts	Leath- er and prod- ucts	Paper and prod- ucts	Print- ing and pub- lishing	Chem- icals and prod- ucts	Petrol- eum prod- ucts	Rub- ber and plas- tics prod- ucts	Foods and bev- erages	Tobac- co prod- ucts			
1950.....	76	96	82	91	74	79	55	73	70	83	84	83	50	
1954.....	84	90	84	90	82	87	71	88	77	90	86	90	72	
1955.....	92	99	92	98	93	93	83	94	95	94	88	99	80	
1956.....	95	100	96	100	97	97	89	99	93	97	91	105	88	
1957.....	97	97	97	99	96	99	94	99	97	97	94	105	94	
1958.....	97	94	95	96	97	97	96	97	92	99	100	96	98	
1959.....	107	109	108	105	107	104	110	104	111	104	105	100	108	
1960.....	110	105	112	100	108	110	117	107	111	107	107	102	116	
1961.....	113	107	112	100	114	112	123	109	112	110	111	103	122	
1962.....	120	115	119	102	120	115	136	113	131	114	112	105	131	
1963.....	125	117	126	100	125	116	149	117	140	117	115	108	140	
1964.....	133	123	134	103	133	123	160	121	156	121	121	111	151	
First quarter.....	129	119	130	98	129	121	155	118	146	121	112	109	146	
Second quarter.....	132	120	133	102	132	124	158	122	154	120	125	111	150	
Third quarter.....	133	124	135	105	133	124	162	122	161	120	123	112	154	
Fourth quarter.....	136	129	139	105	137	124	164	122	164	123	123	112	156	
1965 (prel.).....	141	135	145	108	142	130	173	123	172	123	121	114	161	
First quarter.....	138	132	143	107	139	128	168	121	169	124	124	112	157	
Second quarter.....	139	132	145	107	140	129	169	122	168	122	120	114	161	
Third quarter.....	141	135	143	108	142	131	175	125	170	123	120	115	163	
Fourth quarter.....	144	139	147	111	146	133	179	126	179	125	117	117	165	
1966: First quarter (prel.).....	147	141	147	112	149	138	183	132	183	126	120	118	166	

Source: Board of Governors of the Federal Reserve System; *Industrial Production, 1957-59 Base*, and *Federal Reserve Bulletin*.

No. 1142. MANUFACTURES—GENERAL STATISTICS FOR ESTABLISHMENTS, BY  
EMPLOYEE SIZE-CLASS: 1947, 1954, AND 1958

[In thousands, except as indicated. Excludes Alaska and Hawaii]

ITEM AND YEAR	All estab- lish- ments	EMPLOYEE SIZE-CLASS									
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 and over
<b>Establishments:</b>											
1947.....	241	70	47	41	40	19	14	6	3	1	1
1954.....	287	107	47	42	43	21	16	6	3	1	1
1958.....	298	106	51	47	46	22	16	6	3	1	(Z)
<b>Employees:<sup>1</sup></b>											
<b>Number:</b>											
1947.....	14,294	161	311	562	1,244	1,301	2,229	1,930	1,869	2,146	2,542
1954.....	15,645	258	337	600	1,360	1,475	2,430	2,118	1,963	2,227	2,876
1958.....	15,394	218	340	644	1,443	1,513	2,497	2,150	1,893	2,046	2,649
<b>Payroll (mil. dol.):</b>											
1947.....	39,696	325	699	1,366	3,242	3,440	5,937	5,244	5,219	6,237	7,986
1954.....	62,963	663	1,065	2,038	4,797	5,449	9,171	8,218	8,046	9,767	13,749
1958.....	73,750	738	1,297	2,615	6,058	6,416	10,938	9,709	9,170	10,852	15,950
<b>Value added by manu- facture<sup>2</sup> (mil. dol.):</b>											
1947.....	74,290	904	1,444	2,596	6,039	6,581	11,772	10,432	10,110	11,598	12,812
1954.....	116,848	1,554	2,008	3,645	8,351	9,662	17,143	15,835	15,451	18,927	24,272
1958.....	141,270	1,832	2,544	4,838	11,080	12,024	21,162	19,291	18,103	21,449	28,938
<b>Capital expenditures, new<sup>3</sup> (mil. dol.):</b>											
1954.....	7,817	135	137	214	467	557	1,111	967	1,085	1,548	1,597
1958.....	9,076	293	217	345	643	607	1,165	1,122	1,193	1,417	2,069
<b>PERCENT DISTRIBUTION</b>											
<b>Establishments:</b>											
1947.....	100.0	29.2	19.4	16.9	16.6	7.8	5.9	2.3	1.1	0.6	0.2
1954.....	100.0	37.3	16.5	14.6	14.9	7.4	5.5	2.1	1.0	0.5	0.2
1958.....	100.0	35.4	17.0	15.7	15.5	7.3	5.4	2.1	0.9	0.5	0.2
<b>Employees:<sup>1</sup></b>											
<b>Number:</b>											
1947.....	100.0	1.1	2.2	3.9	8.7	9.1	15.6	13.5	13.1	15.0	17.8
1954.....	100.0	1.7	2.2	3.8	8.7	9.4	15.5	13.5	12.5	14.2	18.4
1958.....	100.0	1.4	2.2	4.2	9.4	9.8	16.2	14.0	12.3	13.3	17.2
<b>Payroll (mil. dol.):</b>											
1947.....	100.0	0.8	1.8	3.4	8.2	8.7	15.0	13.2	13.1	15.7	20.1
1954.....	100.0	1.1	1.7	3.2	7.6	8.7	14.6	13.1	12.8	15.5	21.8
1958.....	100.0	1.0	1.8	3.5	8.2	8.7	14.8	13.2	12.4	14.7	21.6
<b>Value added by manu- facture<sup>2</sup> (mil. dol.):</b>											
1947.....	100.0	1.2	1.9	3.5	8.1	8.9	15.8	14.0	13.6	15.6	17.2
1954.....	100.0	1.3	1.7	3.1	7.1	8.3	14.7	13.6	13.2	16.2	20.8
1958.....	100.0	1.3	1.8	3.4	7.8	8.5	15.0	13.7	12.8	15.2	20.5
<b>Capital expenditures, new<sup>3</sup> (mil. dol.):</b>											
1954.....	100.0	1.7	1.8	2.7	6.0	7.1	14.2	12.4	13.9	19.8	20.4
1958.....	100.0	3.2	2.4	3.8	7.1	6.7	12.8	12.4	13.2	15.6	22.8

Z Less than 500.

<sup>1</sup> Excludes administrative offices and auxiliary units.

<sup>2</sup> For 1958, represents adjusted value added and, for 1947 and 1954, unadjusted value added. Unadjusted value added is obtained by subtracting cost of materials, supplies, containers, fuel, purchased electric energy, and contract work from value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year.

<sup>3</sup> Excludes expenditures for plants under construction and not yet in operation. Data by employment size-class not available for 1947.

Source: Dept. of Commerce, Bureau of the Census; *Concentration Ratios in Manufacturing Industry, 1953*.

## No. 1143. MANUFACTURES—GENERAL STATISTICS

[1954, excludes Alaska and Hawaii. "N.e.c." means not elsewhere classified. Data based upon the 1957 published by the Bureau of the Budget in 1963, and therefore not comparable with

INDUSTRY GROUP	1954			1958			
	Estab-lish-ments	All em-ployees, payroll	Value added by manu-facture, adjusted <sup>1</sup>	Estab-lish-ments	All employees		Value added by manu-facture, adjusted <sup>1</sup>
					Num-ber <sup>2</sup>	Pay-roll	
		Mil. dol.	Mil. dol.		1,000	Mil. dol.	Mil. dol.
1 All manufacturing establishments, incl. administrative and auxiliary units.....	( <sup>4</sup> )	65,867	117,032	303,536	16,035	78,326	141,444
2 Operating manufacturing establishments only.....	286,814	62,963	117,032	299,036	15,432	73,854	141,444
3 Food and kindred products.....	42,373	6,200	13,767	41,983	1,718	7,621	17,704
4 Meat products.....	4,992	1,235	1,938	5,546	312	1,407	2,505
5 Dairies.....	11,503	1,086	2,303	9,879	295	1,351	2,876
6 Canned and frozen foods.....	3,513	573	1,374	3,819	234	775	1,969
7 Grain mills.....	3,410	495	1,467	3,484	119	576	1,856
8 Bakery products.....	6,414	1,124	2,057	6,365	302	1,338	2,643
9 Sugar.....	137	118	265	170	33	162	383
10 Candy and related products.....	1,490	255	610	1,458	80	299	752
11 Beverages.....	5,942	913	2,468	5,597	207	1,044	2,856
12 Misc. food and kindred products.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	5,570	135	607	1,859
13 Tobacco manufactures.....	627	260	1,004	504	84	295	1,413
14 Cigarettes.....	19	104	677	19	34	142	1,059
15 Cigars.....	410	89	168	283	29	82	183
16 Chewing and smoking tobacco.....	65	23	80	58	6	24	86
17 Tobacco stemming and redrying.....	133	43	79	144	15	47	86
18 Textile mill products.....	8,054	2,989	4,606	7,675	903	2,938	4,869
19 Weaving mills, cotton.....	582	783	1,135	496	243	724	1,079
20 Weaving mills, synthetics.....	478	273	409	401	82	277	469
21 Weaving, finishing mills, wool.....	399	230	330	469	56	206	337
22 Narrow fabric mills.....	513	79	124	488	25	86	143
23 Knitting mills.....	3,042	597	940	2,786	215	650	1,111
24 Textile finishing, except wool.....	725	292	462	798	73	293	456
25 Floor covering mills.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	282	34	123	260
26 Yarn and thread mills.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	787	107	307	516
27 Misc. textile goods.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,168	60	272	499
28 Apparel and related products.....	31,372	3,202	5,166	29,358	1,181	3,590	6,001
29 Men's and boys' suits and coats.....	1,310	375	527	1,365	122	408	643
30 Men's and boys' furnishings.....	3,901	639	1,006	3,135	272	694	1,128
31 Women's and misses' outerwear.....	10,298	1,046	1,696	9,781	361	1,157	1,918
32 Women's and children's underwear.....	1,843	285	510	1,645	111	322	596
33 Millinery, hats, and caps.....	1,457	126	191	1,249	36	123	200
34 Children's outerwear.....	1,983	196	320	1,928	81	231	381
35 Fur goods.....	1,972	40	76	1,651	9	50	95
36 Misc. apparel.....	1,804	163	269	1,701	60	177	306
37 Fabricated textiles.....	7,274	381	648	6,903	129	427	732
38 Lumber and wood products.....	41,484	1,934	3,242	37,878	585	1,991	3,213
39 Logging camps and contractors.....	12,865	211	393	12,805	72	228	390
40 Sawmills and planing mills.....	20,487	962	1,610	16,550	279	869	1,845
41 Millwork and related products.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	4,125	135	572	926
42 Wooden containers.....	1,513	138	215	1,278	38	122	177
43 Misc. wood products.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	3,031	61	199	374
44 Furniture and fixtures.....	10,273	1,197	1,998	10,179	348	1,391	2,351
45 Household furniture.....	6,470	819	1,336	6,520	251	944	1,578
46 Office furniture.....	241	85	157	301	23	110	212
47 Public building furniture.....	292	53	90	390	16	69	113
48 Partitions and fixtures.....	1,626	143	236	1,848	38	187	301
49 Furniture and fixtures, n.e.c.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,120	19	81	146
50 Paper and allied products.....	5,004	2,205	4,630	5,271	551	2,780	5,669
51 Pulp mills.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	59	14	75	196
52 Paper mills, except building.....	( <sup>4</sup> )	975	2,305	354	131	741	1,543
53 Paperboard mills.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	252	57	322	840
54 Paper and paperboard products.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	2,245	151	705	1,413
55 Paperboard containers and boxes.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	2,180	181	835	1,502
56 Building paper and board mills.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	181	17	103	175

For footnotes, see pp. 772 and 773.

## FOR INDUSTRY GROUPS: 1954 to 1964

edition of the *Standard Industrial Classification Manual* as amended by the "Supplement to the 1957 Edition" figures shown in the 1960 and earlier editions of the *Statistical Abstract*; see text, p. 764]

1963				1964						
Estab- lish- ments	All employees		Value added by manu- facture, adjusted <sup>1</sup>	All employees		Production workers		Value added by manu- facture, adjusted <sup>1</sup>	Capital expendi- tures, new <sup>3</sup>	
	Num- ber <sup>2</sup>	Payroll		Num- ber <sup>2</sup>	Payroll	Num- ber <sup>2</sup>	Wages			
	1,000	Mil. dol.	Mil. dol.	1,000	Mil. dol.	1,000	Mil. dol.	Mil. dol.	Mil. dol.	
311,784	16,949	99,739	191,035	17,280	106,034	12,431	65,761	205,963	13,436	1
306,530	16,220	93,139	191,035	16,497	98,672	12,431	65,761	205,963	13,436	2
37,521	1,644	8,635	21,610	1,648	9,039	1,095	5,375	23,055	1,419	3
5,300	300	1,647	2,820	305	1,760	241	1,296	3,129	146	4
7,885	257	1,388	3,203	252	1,417	116	591	3,425	212	5
3,909	245	959	2,763	244	1,005	211	769	2,851	190	6
3,555	114	650	2,210	110	664	77	425	2,384	156	7
5,366	281	1,514	3,000	280	1,560	161	819	3,151	133	8
164	32	189	586	33	198	26	153	502	102	9
1,263	78	350	954	80	373	65	260	1,003	52	10
5,018	205	1,225	3,089	209	1,307	109	635	4,059	262	11
5,001	133	712	2,386	135	754	89	427	2,569	165	12
394	77	330	1,682	79	353	70	291	1,772	59	13
14	36	183	<sup>5</sup> 1,310	35	186	32	162	<sup>5</sup> 1,315	37	14
193	21	68	<sup>5</sup> 194	23	81	21	69	<sup>5</sup> 220	8	15
51	4	18	<sup>5</sup> 74	5	24	4	14	<sup>5</sup> 94	6	16
136	17	61	<sup>5</sup> 104	16	62	13	45	<sup>5</sup> 143	8	17
7,103	861	3,373	6,088	877	3,651	782	2,966	6,736	492	18
407	208	768	1,250	204	824	191	730	1,409	144	19
355	88	306	661	94	417	85	347	787	51	20
361	48	204	392	44	197	38	155	371	19	21
384	23	93	173	23	97	20	77	177	10	22
2,848	219	784	1,390	224	833	199	659	1,528	71	23
621	70	334	580	77	385	66	294	651	48	24
349	35	151	394	39	171	32	127	455	40	25
712	103	360	640	106	395	97	337	723	75	26
1,066	65	313	607	65	332	54	240	635	34	27
28,459	1,278	4,430	7,805	1,305	4,696	1,149	3,643	8,150	124	28
1,112	222	492	822	124	518	110	411	834	11	29
2,983	305	911	1,615	313	981	286	808	1,640	31	30
9,740	407	1,432	2,462	413	1,502	362	1,148	2,581	22	31
1,420	114	379	736	115	404	100	294	787	10	32
1,147	31	116	183	29	112	25	88	179	2	33
1,576	81	264	461	84	284	75	222	489	8	34
1,591	9	56	110	10	63	8	49	107	(Z)	35
1,582	61	209	369	62	220	54	164	380	9	36
7,308	147	572	1,046	152	612	128	457	1,155	33	37
36,150	563	2,341	4,003	562	2,535	493	2,047	4,361	369	38
13,588	( <sup>6</sup> )	283	524	( <sup>6</sup> )	296	( <sup>6</sup> )	264	551	84	39
13,372	( <sup>6</sup> )	939	1,558	( <sup>6</sup> )	1,040	( <sup>6</sup> )	845	1,740	165	40
4,970	147	725	1,235	151	781	128	612	1,332	70	41
986	31	113	175	30	115	27	93	174	6	42
3,234	69	281	510	71	302	61	232	564	44	43
10,478	374	1,715	3,033	386	1,838	323	1,369	3,225	106	44
6,560	270	1,146	2,027	280	1,242	239	949	2,147	73	45
308	27	144	284	27	152	21	110	312	10	46
430	17	82	140	17	90	14	63	155	7	47
2,107	44	258	427	45	267	34	186	452	12	48
1,073	18	85	155	18	87	14	61	161	3	49
5,713	589	3,517	7,388	593	3,683	470	2,676	7,805	886	50
45	15	105	282	16	116	13	87	338	66	51
325	130	877	1,853	129	915	106	708	1,970	294	52
271	65	440	1,218	64	452	52	346	1,272	215	53
2,495	168	924	1,950	171	961	132	662	2,062	145	54
2,494	200	1,101	1,933	201	1,168	158	815	1,998	151	55
83	12	70	153	11	71	10	58	166	12	56

## No. 1143. MANUFACTURES—GENERAL STATISTICS

INDUSTRY GROUP	1954			1958			
	Estab- lish- ments	All em- ployees, payroll	Value added by manu- facture, adjusted <sup>1</sup>	Estab- lish- ments	All employees		Value added by manu- facture, adjusted <sup>1</sup>
					Num- ber <sup>2</sup>	Pay- roll	
		<i>Mil. dol.</i>	<i>Mil. dol.</i>		<i>1,000</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>
1 <b>Printing and publishing</b> .....	32,530	3,619	6,403	35,456	865	4,489	7,973
2 Newspapers.....	8,645	1,257	2,138	8,279	296	1,500	2,529
3 Periodicals.....	2,045	313	806	2,323	67	381	975
4 Books.....	1,412	245	552	1,694	67	338	843
5 Misc. publishing.....	946	73	151	1,105	19	96	199
6 Commercial printing.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17,310	288	1,519	2,343
7 Manifold business forms.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	704	24	121	245
8 Greeting cards manufacturing.....	294	70	135	282	22	89	179
9 Bookbinding and related work.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,406	40	166	265
10 Printing trades services.....	2,205	236	327	2,328	42	279	390
11 <b>Chemicals and allied products</b> .....	11,074	3,377	9,547	11,309	698	3,949	12,308
12 Basic chemicals.....	1,474	1,201	3,223	1,698	238	1,460	4,314
13 Fibers, plastics, rubbers.....	273	508	1,427	407	122	683	1,900
14 Drugs.....	1,371	426	1,365	1,359	96	546	2,096
15 Cleaning and toilet goods.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2,654	79	418	1,903
16 Paints and allied products.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,709	59	323	807
17 Gum and wood chemicals.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	190	7	30	85
18 Agricultural chemicals.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,305	39	160	415
19 Misc. chemical products.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,987	59	327	785
20 <b>Petroleum and coal products</b> .....	1,262	953	2,241	1,608	179	1,117	2,518
21 Petroleum refining.....	409	816	1,918	446	146	944	2,119
22 Paving and roofing materials.....	523	88	208	772	23	119	269
23 Petroleum and coal products, n.e.c.....	330	49	115	390	10	53	130
24 <b>Rubber and plastics products, n.e.c.</b> .....	3,845	1,410	2,553	4,462	348	1,723	3,277
25 Tires and inner tubes.....	49	442	878	123	89	522	1,180
26 Rubber footwear.....	22	64	107	27	20	86	160
27 Reclaimed rubber.....	20	13	23	16	2	12	21
28 Rubber products, n.e.c.....	1,315	541	946	1,074	120	593	997
29 Plastics products, n.e.c.....	2,439	350	598	3,222	116	511	929
30 <b>Leather and leather products</b> .....	4,845	1,027	1,641	4,549	349	1,146	1,898
31 Leather tanning and finishing.....	579	168	260	578	37	166	276
32 Industrial leather belting.....	136	19	35	104	4	19	36
33 Footwear cut stock.....	563	57	87	513	18	58	98
34 Footwear, except rubber.....	1,369	619	988	1,279	227	700	1,146
35 Leather gloves.....	239	16	23	179	6	16	26
36 Luggage.....	497	52	91	428	16	55	97
37 Purses and small leather goods.....	1,139	105	164	1,020	36	115	187
38 Leather goods, n.e.c.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	433	5	18	31
39 <b>Stone, clay, and glass products</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	15,055	553	2,597	5,534
40 Flat glass.....	32	133	247	32	21	134	263
41 Pressed and blown glassware.....	372	355	679	240	90	431	845
42 Products of purchased glass.....	( <sup>1</sup> )	88	193	1,031	24	110	243
43 Cement, hydraulic.....	162	168	526	175	41	214	725
44 Structural clay products.....	1,053	267	428	1,018	70	293	490
45 Pottery and related products.....	867	174	258	755	44	181	283
46 Concrete and plaster products.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9,171	150	693	1,554
47 Cut stone and stone products.....	977	78	121	1,001	20	83	129
48 Nonmetallic mineral products.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1,609	91	459	1,002
49 <b>Primary metal industries</b> .....	6,171	5,330	9,899	6,446	1,092	6,303	11,642
50 Steel rolling and finishing.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	712	578	3,571	6,863
51 Iron and steel foundries.....	1,734	896	1,327	1,648	182	886	1,322
52 Primary nonferrous metals.....	103	240	568	112	47	266	709
53 Secondary nonferrous metals.....	354	69	145	387	14	76	147
54 Nonferrous rolling and drawing.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	711	156	885	1,687
55 Nonferrous foundries.....	1,920	328	472	1,965	62	319	471
56 Primary metal industries, n.e.c.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	911	52	301	443

For footnotes, see pp. 772 and 773.

# Industry Groups

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FOR INDUSTRY GROUPS: 1954 TO 1964

Establishments	1963			1964						
	All employees		Value added by manufacture, adjusted <sup>1</sup>	All employees		Production workers		Value added by manufacture, adjusted <sup>1</sup>	Capital expenditures, new <sup>2</sup>	
	Number <sup>2</sup>	Payroll		Number <sup>2</sup>	Payroll	Number <sup>2</sup>	Wages			
	1,000	Mil. dol.	Mil. dol.	1,000	Mil. dol.	1,000	Mil. dol.	Mil. dol.	Mil. dol.	
38,090	911	5,486	10,461	935	5,849	570	3,319	11,065	463	1
8,331	305	1,776	3,157	317	1,898	166	967	3,295	122	2
2,630	70	454	1,361	69	499	12	66	1,449	38	3
1,676	81	486	1,334	83	556	44	263	1,473	60	4
1,374	22	128	1,259	23	137	10	48	280	6	5
19,511	301	1,855	3,005	302	1,928	234	1,400	3,111	182	6
502	28	170	387	29	178	21	121	400	22	7
267	21	105	203	23	115	13	57	247	14	8
1,453	42	206	341	44	220	37	164	357	13	9
2,356	41	306	434	41	319	31	243	453	8	10
11,993	737	4,965	17,443	749	5,240	481	2,926	19,133	1,876	11
1,905	237	1,765	6,179	239	1,843	157	1,101	6,794	1,009	12
577	145	976	2,805	151	1,045	106	651	3,231	476	13
1,262	99	673	2,803	102	719	57	313	2,946	118	14
2,060	86	526	2,874	87	550	54	287	3,106	66	15
1,788	61	402	1,078	61	425	34	196	1,142	39	16
246	7	33	98	6	32	5	22	102	5	17
1,354	42	208	595	43	219	29	131	693	110	18
2,201	60	382	1,022	60	407	39	226	1,118	52	19
1,839	153	1,132	3,713	149	1,127	105	743	3,774	412	20
427	119	921	3,133	114	908	82	605	3,173	384	21
992	24	145	360	25	151	18	103	370	22	22
420	10	66	219	10	70	6	35	232	5	23
5,728	414	2,358	4,631	429	2,544	339	1,796	4,984	400	24
155	85	622	1,821	86	664	66	494	1,862	133	25
53	29	129	216	30	139	26	115	232	7	26
13	2	14	28	2	13	2	10	24	4	27
1,173	132	757	1,418	134	796	102	537	1,513	73	28
4,334	166	835	1,949	178	932	143	640	1,853	183	29
4,047	327	1,226	2,066	327	1,287	292	1,024	2,270	38	30
525	31	163	272	31	169	27	131	300	8	31
83	3	16	32	3	17	2	11	32	1	32
446	14	53	90	14	53	12	37	97	1	33
1,193	213	754	1,275	213	795	193	655	1,393	22	34
166	8	24	33	7	23	6	19	37	(Z)	35
379	16	62	111	17	69	15	50	127	2	36
885	36	134	220	37	141	32	106	248	3	37
370	5	19	33	5	20	4	14	36	1	38
15,838	574	3,214	7,040	581	3,369	460	2,449	7,520	626	39
31	23	173	366	23	179	19	149	383	22	40
220	98	536	1,104	99	558	87	456	1,177	98	41
1,044	26	137	308	27	150	22	111	324	41	42
188	35	227	785	35	233	28	177	804	94	43
916	65	322	553	65	333	54	252	622	42	44
638	42	213	336	42	219	35	168	360	15	45
10,160	166	908	2,123	169	954	121	626	2,242	224	46
893	18	86	132	19	91	16	71	143	5	47
1,748	100	612	1,334	103	652	78	430	1,466	86	48
6,513	1,127	7,737	14,951	1,179	8,477	991	6,570	16,732	1,887	49
746	570	4,172	8,342	603	4,606	518	3,609	9,422	1,363	50
1,487	200	1,234	1,945	212	1,405	183	1,140	2,257	129	51
119	49	327	978	51	342	42	264	1,080	77	52
459	15	96	224	17	111	12	70	268	17	53
748	168	1,105	2,179	168	1,142	131	829	2,229	194	54
1,894	69	410	651	70	439	59	339	725	45	55
1,060	56	393	632	59	431	46	319	750	63	56



## No. 1143. MANUFACTURES—GENERAL STATISTICS

INDUSTRY GROUP	1954			1958			
	Estab- lish- ments	All em- ployees, payroll	Value added by manu- facture, adjusted <sup>1</sup>	Estab- lish- ments	All employees		Value added by manu- facture, adjusted <sup>1</sup>
					Num- ber <sup>2</sup>	Pay- roll	
		<i>Mil. dol.</i>	<i>Mil. dol.</i>		<i>1,000</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>
1 Fabricated metal products.....	22,042	4,605	8,021	24,782	1,061	5,416	9,440
2 Metal cans.....	227	245	500	222	54	304	669
3 Cutlery, hand tools, hardware.....	1,930	600	1,041	2,094	136	657	1,202
4 Plumbing and heating, except electric.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	989	72	357	673
5 Structural metal products.....	7,421	1,281	2,235	9,409	341	1,807	2,963
6 Screw machine products, bolts, etc.....	2,252	398	665	2,317	85	441	755
7 Metal stampings.....	2,320	595	958	2,456	125	646	1,045
8 Metal services, n.e.c.....	3,233	183	285	3,649	52	224	362
9 Fabricated wire prod., n.e.c.....	1,275	244	413	1,463	55	261	440
10 Fabricated metal prod., n.e.c.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2,183	139	715	1,332
11 Machinery, exc. electrical.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	29,867	1,350	7,305	12,414
12 Engines and turbines.....	141	400	651	140	97	552	1,089
13 Farm machinery and equipment.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,469	108	551	1,088
14 Construction and like equipment.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	2,048	200	1,073	2,055
15 Metalworking machinery.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	7,930	234	1,380	2,058
16 Special industry machinery.....	2,900	755	1,224	3,174	162	854	1,340
17 General industrial machinery.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3,325	211	1,143	1,935
18 Office machines, n.e.c.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	346	122	667	971
19 Service industry machines.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,256	100	509	918
20 Misc. machinery.....	6,832	442	737	10,171	116	575	960
21 Electrical machinery.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	8,091	1,126	5,606	10,472
22 Electric distribution products.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,069	134	724	1,339
23 Electrical industrial apparatus.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,061	156	819	1,448
24 Household appliances.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	651	143	732	1,549
25 Lighting and wiring devices.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,819	124	564	1,183
26 Radio and TV receiving equipment.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	328	74	326	687
27 Communication equipment.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	607	220	1,204	2,121
28 Electronic components.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,687	198	854	1,434
29 Electrical products, n.e.c.....	893	365	644	869	77	383	711
30 Transportation equipment.....	5,349	8,300	13,428	6,625	1,562	9,165	15,315
31 Motor vehicles and equipment.....	1,921	3,412	6,137	2,283	582	3,318	6,781
32 Aircraft and parts.....	1,404	4,049	6,084	1,569	765	4,720	6,924
33 Ship and boat building.....	1,509	562	757	1,970	145	774	1,072
34 Railroad equipment.....	86	244	328	92	40	222	320
35 Motorcycles, bicycles, and parts.....	46	28	40	51	8	33	52
36 Transportation equipment, n.e.c.....	383	50	79	642	23	98	166
37 Instruments and related products.....	3,141	1,200	2,131	3,526	286	1,578	2,781
38 Scientific instruments.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	567	57	399	481
39 Mechanical measuring devices.....	614	303	543	710	76	387	716
40 Optical instruments and lenses.....	204	38	55	224	7	38	60
41 Medical instruments and supplies.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,070	42	195	414
42 Ophthalmic goods.....	238	65	107	246	18	71	137
43 Photographic equipment.....	449	308	596	480	60	369	789
44 Watches, clocks, and watchcases.....	209	119	201	229	26	119	184
45 Misc. manufacturing (including ordnance) <sup>4</sup> .....	14,588	2,357	3,909	14,306	592	2,848	4,634
46 Jewelry and silverware.....	2,101	183	302	2,086	41	186	318
47 Musical instruments and parts.....	242	61	94	274	16	82	121
48 Toys and sporting goods.....	2,461	266	468	2,607	99	362	712
49 Pens, pencils, and office supplies.....	832	109	201	921	29	124	237
50 Costume jewelry and notions.....	2,364	200	318	2,205	56	194	338
51 Misc. manufactures (including ord- nance) <sup>4</sup> .....	6,572	1,494	2,422	6,180	350	1,901	2,909
52 Administrative and auxiliary <sup>5</sup> .....	( <sup>3</sup> )	2,940	(X)	4,500	602	4,471	(X)

X Not applicable. Z Less than \$500,000.

<sup>1</sup> Value of shipments less cost of materials, supplies, fuels, electric energy, and contract work, plus net change in finished goods and work-in-process inventory, and value added in merchandising activities of manufacturing establishments. For 1958, breakdown does not add to total because of exclusion of selected industries for Alaska and Hawaii for disclosure purposes.<sup>2</sup> "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 15th of March.<sup>3</sup> Includes expenditures for plants in operation and plants under construction but not yet in operation.<sup>4</sup> Comparable data not available.

# Industry Groups

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FOR INDUSTRY GROUPS: 1954 to 1964

1963				1964					
Establishments	All employees		Value added by manufacture, adjusted <sup>1</sup>	All employees		Production workers		Value added by manufacture, adjusted <sup>1</sup>	Capital expenditures, new <sup>3</sup>
	Number <sup>2</sup>	Payroll		Number <sup>2</sup>	Payroll	Number <sup>2</sup>	Wages		
	1,000	Mil. dol.	Mil. dol.	1,000	Mil. dol.	1,000	Mil. dol.	Mil. dol.	Mil. dol.
26,976	1,079	6,352	11,696	1,116	6,857	870	4,807	12,636	728
270	53	378	815	55	402	48	332	936	72
2,023	137	801	1,680	143	873	113	626	1,788	112
979	68	389	790	71	421	53	281	862	29
10,199	325	1,919	3,230	331	2,028	245	1,346	3,457	149
2,447	94	585	1,051	96	627	76	450	1,130	58
2,574	131	767	1,350	137	832	114	611	1,458	156
4,281	66	316	554	68	359	56	266	620	34
1,567	55	296	528	59	330	48	238	550	27
2,636	148	901	1,098	156	985	117	657	1,835	91
33,703	1,457	9,583	17,357	1,537	10,587	1,108	6,877	19,763	946
165	86	608	1,128	91	666	64	433	1,282	61
1,568	113	692	1,334	119	769	90	538	1,486	83
2,259	209	1,372	2,678	232	1,580	165	1,004	3,232	137
8,536	257	1,826	3,109	272	2,040	206	1,428	3,586	178
3,289	172	1,096	1,912	182	1,206	128	758	2,204	99
3,761	234	1,545	2,821	245	1,729	171	1,081	3,203	148
515	140	991	1,659	142	1,025	91	549	1,804	110
1,520	113	673	1,391	114	704	81	440	1,469	49
12,090	133	779	1,324	140	868	112	646	1,497	82
9,860	1,511	9,284	16,936	1,484	9,417	1,029	5,573	18,040	889
1,137	132	819	1,510	134	872	92	515	1,669	52
1,156	161	1,004	1,882	165	1,076	120	684	2,067	87
700	146	865	2,095	151	920	120	655	2,183	78
1,951	134	718	1,575	139	770	109	522	1,735	74
615	91	463	1,056	95	489	76	347	1,139	41
1,222	478	3,407	5,338	447	3,269	251	1,579	5,674	178
2,291	284	1,510	2,434	271	1,517	199	921	2,479	215
888	85	500	1,046	81	504	63	350	1,093	163
7,196	1,601	11,777	22,675	1,624	12,265	1,171	8,128	23,961	1,297
2,765	692	5,182	12,710	737	5,641	607	4,414	13,677	940
1,346	681	5,188	7,852	641	5,048	360	2,510	7,825	263
1,960	139	897	1,180	142	946	120	732	1,276	47
102	45	302	545	52	370	41	278	722	30
88	9	47	80	10	54	8	40	99	6
935	33	161	298	42	205	36	154	362	12
3,949	305	1,912	3,968	309	2,021	209	1,151	4,333	165
594	33	208	357	31	198	21	115	311	15
774	95	585	1,111	94	621	61	354	1,175	54
280	12	78	130	15	104	10	58	177	6
1,314	51	289	626	52	301	36	169	652	28
229	20	97	176	21	105	17	76	197	9
538	65	490	1,269	66	532	41	272	1,483	46
220	29	155	300	30	162	23	108	337	7
14,980	637	3,772	6,489	629	3,836	423	2,031	6,647	256
2,193	44	227	417	45	244	35	166	437	8
320	20	103	179	22	115	18	86	190	6
2,690	113	460	977	112	484	94	338	1,017	51
1,001	32	159	337	32	168	23	99	355	16
1,929	52	212	410	51	223	43	157	453	14
6,847	377	2,611	4,170	366	2,603	211	1,186	4,195	161
5,254	728	6,601	(X)	783	7,363	(X)	(X)	(X)	(X)

<sup>1</sup> Value of production. The formula for computing adjusted value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

<sup>2</sup> Withheld to permit additional checking of figures; however, data for these industries are included in totals.

<sup>3</sup> Beginning 1963, not strictly comparable with earlier years due to difference in coverage.

<sup>4</sup> Includes privately owned and/or operated establishments classified in "Ordnance and accessories." Excludes Government-owned and operated equipment.

<sup>5</sup> Manufacturing concerns often reported separately for central offices or auxiliaries which serve the manufacturing establishments of a company, rather than the general public. Separate reports were obtained from such units if at a different location or if they serviced more than 1 establishment.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Manufactures: 1958*, Vol. III, *1963 Census of Manufactures*, Series MC 63 (P)-3, and *1964 Annual Survey of Manufactures*.

1	STATE	1954 <sup>1</sup>			1953 <sup>1</sup>			
		Estab- lish- ments	Payroll	Value added by manufac- ture, ad- justed <sup>2</sup>	Estab- lish- ments <sup>3</sup>	All employees <sup>4</sup>		Value added by manufac- ture, ad- justed <sup>2</sup>
						Num- ber <sup>5</sup>	Payroll	
		<i>Mil. dol.</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>		<i>1,000</i>	<i>Mil. dol.</i>	<i>Mil. dol.</i>
1	United States.....	287,553	66,074	117,212	299,036	16,035	78,326	141,444
2	New England.....	24,625	5,465	9,129	24,588	1,399	6,294	10,429
3	Maine.....	3,015	325	565	2,733	98	377	628
4	New Hampshire.....	1,609	247	409	1,446	80	298	491
5	Vermont.....	1,071	124	223	1,016	32	132	236
6	Massachusetts.....	11,205	2,576	4,356	11,409	681	3,069	5,129
7	Rhode Island.....	2,635	432	697	2,736	115	452	755
8	Connecticut.....	5,090	1,750	2,877	5,248	394	1,965	3,189
9	Middle Atlantic.....	82,380	17,884	30,403	81,569	4,112	20,450	34,814
10	New York.....	50,402	8,468	14,141	48,623	1,916	9,617	15,892
11	New Jersey.....	13,183	3,507	6,332	14,009	795	4,068	7,499
12	Pennsylvania.....	18,795	5,910	9,930	19,037	1,402	6,766	11,423
13	East North Central.....	58,946	20,893	36,491	60,808	4,259	22,980	40,962
14	Ohio.....	14,550	5,818	10,154	14,931	1,199	6,517	11,473
15	Indiana.....	6,355	2,533	4,632	6,555	551	2,874	5,502
16	Illinois.....	17,628	5,421	9,664	18,100	1,189	6,216	11,664
17	Michigan.....	12,711	5,252	8,707	13,429	880	5,164	8,364
18	Wisconsin.....	7,702	1,869	3,334	7,793	439	2,208	3,960
19	West North Central.....	19,020	3,853	7,114	20,124	964	4,608	8,870
20	Minnesota.....	5,027	865	1,595	5,317	221	1,089	2,050
21	Iowa.....	3,320	648	1,236	3,567	166	812	1,684
22	Missouri.....	6,198	1,497	2,727	6,437	380	1,770	3,251
23	North Dakota.....	367	19	35	405	6	26	63
24	South Dakota.....	546	41	78	575	13	55	114
25	Nebraska.....	1,423	223	394	1,536	59	265	536
26	Kansas.....	2,139	560	1,049	2,287	119	591	1,171
27	South Atlantic.....	30,530	5,698	10,658	33,079	1,887	7,279	14,346
28	Delaware.....	556	267	353	547	58	349	429
29	Maryland.....	3,253	1,002	1,889	3,435	259	1,255	2,370
30	District of Columbia.....	484	92	157	507	21	114	198
31	Virginia.....	4,398	777	1,629	4,414	258	986	2,123
32	West Virginia.....	2,027	495	988	1,899	118	586	1,269
33	North Carolina.....	6,645	1,186	2,210	7,289	462	1,490	3,083
34	South Carolina.....	2,720	635	1,041	2,888	226	732	1,360
35	Georgia.....	5,655	854	1,592	5,796	314	1,077	2,102
36	Florida.....	4,792	389	798	6,304	171	690	1,411
37	East South Central.....	12,854	2,367	4,702	13,641	783	3,162	6,389
38	Kentucky.....	2,651	553	1,236	2,850	162	721	1,769
39	Tennessee.....	4,058	883	1,679	4,450	283	1,106	2,207
40	Alabama.....	3,893	690	1,319	3,927	230	920	1,771
41	Mississippi.....	2,252	239	468	2,414	109	355	642
42	West South Central.....	16,469	2,789	5,722	18,400	796	3,660	7,791
43	Arkansas.....	2,428	222	457	2,571	89	293	592
44	Louisiana.....	3,020	534	1,182	3,125	137	621	1,430
45	Oklahoma.....	2,131	364	581	2,366	92	458	725
46	Texas.....	8,890	1,669	3,502	10,338	478	2,288	5,045
47	Mountain.....	6,685	763	1,501	7,561	229	1,151	2,263
48	Montana.....	893	72	141	925	20	95	191
49	Idaho.....	981	94	179	1,059	28	128	256
50	Wyoming.....	328	27	51	329	6	34	63
51	Colorado.....	2,069	255	472	2,242	78	405	782
52	New Mexico.....	593	33	66	665	14	59	126
53	Arizona.....	817	111	192	1,150	41	216	360
54	Utah.....	852	121	276	986	38	186	417
55	Nevada.....	177	25	63	205	5	27	68
56	Pacific.....	36,047	6,321	11,365	39,266	1,504	8,801	15,666
57	Washington.....	4,929	854	1,549	5,065	215	1,173	2,167
58	Oregon.....	5,870	567	1,037	5,025	134	649	1,222
59	California.....	24,509	4,807	8,597	28,322	1,216	6,871	12,048
60	Alaska.....	219	20	40	245	5	26	65
61	Hawaii.....	520	77	140	609	24	82	165

<sup>1</sup> Sum of State totals may not add to U.S. total because figures were independently derived.

<sup>2</sup> See footnote 1, table 1143. <sup>3</sup> Operating establishments only.

<sup>4</sup> Includes employment and payroll at administrative offices and auxiliary units.

<sup>5</sup> "Production workers" represents the average of the employment for the payroll periods ended nearest the 15th of March, May, August, and November. "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 15th of March.

# Manufactures, by States

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STATISTICS, BY STATES: 1954, 1958, AND 1963

1963 (prel.)								1962, aggregate horse- power <sup>7</sup>	1
Estab- lish- ments <sup>3</sup>	All employees <sup>3</sup>		Production workers			Value added by manufac- ture, ad- justed <sup>2</sup>	Capital expend- itures, new <sup>6</sup>		
	Num- ber <sup>4</sup>	Pay- roll	Num- ber <sup>4</sup>	Man- hours	Wages				
	1,000 16, 973	Mil. dol. 99, 598	1,000 12, 263	Millions 24, 608	Mil. dol. 62, 138	Mil. dol. 190, 555	Mil. dol. 11, 072	1,000 151, 498	
307, 176									
24, 361	1, 429	7, 826	1, 047	2, 091	4, 893	13, 535	637	8, 138	2
2, 509	100	437	84	170	334	779	63	1, 231	3
1, 510	85	385	70	138	275	654	29	480	4
964	34	168	26	53	114	309	16	290	5
11, 170	677	3, 727	482	950	2, 236	6, 365	274	3, 309	6
2, 692	114	535	90	177	366	950	43	594	7
5, 516	419	2, 575	294	603	1, 568	4, 478	213	2, 234	8
80, 158	4, 075	24, 239	2, 861	5, 609	14, 323	43, 459	2, 091	27, 644	9
46, 163	1, 850	11, 116	1, 255	2, 452	6, 179	19, 510	777	8, 837	10
14, 906	829	5, 112	576	1, 151	3, 031	9, 980	521	4, 712	11
19, 089	1, 395	8, 010	1, 030	2, 005	5, 113	13, 909	794	14, 095	12
61, 880	4, 485	29, 154	3, 240	6, 630	18, 883	56, 036	3, 171	42, 229	13
15, 177	1, 241	8, 084	889	1, 807	5, 254	15, 443	856	13, 962	14
6, 786	610	3, 791	463	938	2, 619	7, 688	538	7, 060	15
18, 135	1, 211	7, 555	857	1, 720	4, 064	14, 557	775	8, 637	16
13, 965	961	6, 941	692	1, 478	4, 522	13, 004	721	9, 165	17
7, 817	462	2, 782	338	688	1, 824	5, 344	280	3, 405	18
20, 351	1, 017	5, 906	715	1, 441	3, 677	10, 922	643	6, 993	19
5, 438	249	1, 494	166	334	868	2, 828	159	1, 826	20
3, 451	178	1, 044	127	256	687	2, 276	127	1, 585	21
6, 392	392	2, 237	276	548	1, 363	4, 424	208	2, 053	22
458	6	31	4	9	10	72	8	52	23
582	13	71	10	20	48	142	7	114	24
1, 590	65	348	47	97	230	743	46	437	25
2, 440	114	681	84	176	461	437	87	1, 127	26
35, 222	2, 133	10, 014	1, 666	3, 357	6, 684	21, 104	1, 465	16, 794	27
548	60	438	31	63	103	666	66	575	28
3, 451	264	1, 550	189	377	960	2, 978	174	1, 962	29
557	22	148	11	22	65	261	13	54	30
4, 493	303	1, 430	239	482	991	3, 064	227	2, 378	31
1, 817	119	719	91	179	490	1, 834	173	2, 445	32
7, 760	531	2, 087	445	892	1, 526	4, 618	295	2, 736	33
3, 028	261	1, 037	221	453	787	2, 117	165	2, 463	34
6, 237	355	1, 505	291	585	1, 074	3, 239	167	2, 353	35
7, 331	218	1, 099	148	305	628	2, 326	186	1, 828	36
14, 070	895	4, 148	715	1, 417	2, 908	9, 168	711	10, 844	37
2, 886	182	963	141	280	657	2, 460	226	2, 210	38
4, 718	341	1, 540	269	532	1, 044	3, 344	270	4, 549	39
4, 100	244	1, 157	198	391	840	2, 342	152	3, 120	40
2, 866	128	487	108	214	366	1, 022	63	965	41
19, 977	859	4, 604	624	1, 280	2, 896	10, 896	858	17, 195	42
2, 838	114	438	96	192	333	959	72	1, 200	43
3, 193	140	771	105	216	526	1, 918	180	3, 802	44
2, 544	97	548	63	127	294	965	64	909	45
11, 402	509	2, 847	361	745	1, 743	7, 054	541	11, 284	46
8, 455	284	1, 700	197	394	1, 062	3, 491	235	3, 430	47
973	20	108	16	32	81	235	28	509	48
1, 104	31	162	24	49	117	366	28	611	49
345	7	38	5	10	25	83	14	169	50
2, 409	93	591	64	129	369	1, 203	68	656	51
735	15	81	10	21	47	170	9	154	52
1, 512	57	349	39	78	212	617	49	457	53
1, 095	53	326	33	67	182	705	30	614	54
282	7	43	5	10	29	112	9	261	55
42, 702	1, 797	12, 007	1, 198	2, 389	6, 814	21, 944	1, 261	18, 230	56
5, 198	226	1, 479	153	303	881	2, 873	144	3, 863	57
4, 843	146	817	118	230	616	1, 570	131	2, 589	58
31, 709	1, 394	9, 565	904	1, 813	5, 220	17, 157	956	11, 334	59
295	6	40	5	10	30	89	15	103	60
657	25	107	19	33	67	254	16	343	61

<sup>6</sup> Includes expenditures for plants in operation and plants under construction but not yet in operation.

<sup>7</sup> For definition, see headnote, table 1151.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Manufactures: 1958*, Vol. III, *1963 Census of Manufactures*, Series MC63(P)-4.

# No. 1145. MANUFACTURES—SUMMARY FOR SMSA'S WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1958 AND 1963

[Employees in thousands; money figures in millions of dollars. For definition of standard metropolitan statistical area (SMSA), see text, p. 1; certain of these SMSA's differ to some extent from those in table 15]

STANDARD METROPOLITAN STATISTICAL AREA	1958				1963 (prel.)			
	Estab- lish- ments	All em- ployees <sup>1</sup>		Value added by manu- facture, adjusted <sup>2</sup>	Estab- lish- ments	All em- ployees <sup>1</sup>		Value added by manu- facture, adjusted <sup>2</sup>
		Num- ber	Pay- roll			Num- ber	Pay- roll	
Akron, Ohio.....	698	89	476	809	837	89	622	1,032
Albany-Schenectady-Troy, N.Y.....	744	72	391	641	699	62	395	685
Allentown-Bethlehem-Easton, Pa.- N.J.....	1,005	94	430	684	1,017	94	521	817
Anaheim-Santa Ana-Garden Grove, Calif.....	(NA)	32	(NA)	315	1,426	95	671	1,198
Atlanta, Ga.....	1,317	84	380	712	1,439	96	538	1,141
Baltimore, Md.....	2,112	198	1,011	1,964	2,027	191	1,187	2,342
Binghamton, N.Y.-Pa.....	302	47	194	311	388	42	259	340
Birmingham, Ala.....	660	63	336	587	674	60	360	675
Boston, Mass.....	5,665	301	1,463	2,422	5,386	296	1,777	3,009
Bridgeport, Conn.....	784	65	332	571	825	68	421	771
Buffalo, N.Y.....	1,820	174	979	1,716	1,775	162	1,103	2,067
Canton, Ohio.....	469	51	270	500	512	54	342	658
Chattanooga, Tenn.-Ga.....	428	41	166	337	445	39	193	405
Chicago, Ill.....	13,508	855	4,591	8,296	13,564	861	5,479	10,225
Cincinnati, Ohio-Ky.-Ind.....	1,776	156	809	1,555	1,920	153	965	2,007
Cleveland, Ohio.....	3,898	271	1,513	2,557	4,046	280	1,902	3,330
Columbus, Ohio.....	835	73	376	680	960	81	511	984
Dallas, Tex.....	1,756	95	461	845	2,050	105	586	1,165
Davenport-Rock Island-Moline, Ill.....	(NA)	39	(NA)	405	455	41	273	494
Dayton, Ohio.....	930	97	547	912	1,024	105	722	1,237
Denver, Colo.....	1,286	54	286	563	1,445	68	458	930
Detroit, Mich.....	6,468	468	2,972	4,312	6,836	494	3,839	6,602
Flint, Mich.....	278	59	343	586	334	69	564	1,146
Fort Worth, Tex.....	784	56	294	523	937	50	316	591
Gary-Hammond-East Chicago, Ind.....	444	100	614	1,282	418	97	713	1,614
Grand Rapids, Mich.....	841	56	234	548	1,157	65	394	781
Greensboro-High Point, N.C.....	577	42	144	315	627	46	194	417
Greenville, S.C.....	(NA)	37	(NA)	206	401	46	177	342
Hartford, Conn.....	905	89	454	723	926	89	585	972
Houston, Tex.....	1,750	93	515	1,154	2,197	106	695	1,890
Indianapolis, Ind.....	1,101	106	533	1,026	1,352	116	751	1,362
Jersey City, N.J.....	2,400	124	619	1,225	2,301	110	638	1,387
Kansas City, Mo.-Kans.....	1,625	103	521	1,063	1,698	112	686	1,508
Lancaster, Pa.....	632	44	191	368	662	48	257	526
Lawrence-Haverhill, Mass.-N.H.....	486	36	149	268	469	42	213	359
Los Angeles-Long Beach, Calif.....	16,910	697	4,149	6,729	17,434	743	5,067	8,906
Louisville, Ky.-Ind.....	872	87	435	1,161	873	88	546	1,553
Memphis, Tenn.-Ark.....	708	42	176	397	789	47	240	509
Miami, Fla.....	1,688	37	143	252	1,905	44	190	363
Milwaukee, Wis.....	2,298	189	1,021	1,765	2,355	195	1,277	2,224
Minneapolis-St. Paul, Minn.....	2,433	146	761	1,397	2,599	167	1,071	1,972
Nashville, Tenn.....	497	40	155	305	662	46	223	580
Newark, N.J.....	4,425	246	1,290	2,293	4,585	251	1,607	3,073
New Haven, Conn.....	722	43	205	332	726	43	253	415
New Orleans, La.....	901	47	204	475	904	49	283	627
New York, N.Y.....	39,396	1,183	5,866	9,389	37,356	1,447	6,699	11,394
Paterson-Clifton-Passaic, N.J.....	3,332	159	798	1,465	3,765	175	1,047	1,955
Peoria, Ill.....	(NA)	38	(NA)	492	359	40	277	587
Philadelphia, Pa.-N.J.....	8,124	537	2,744	4,826	8,125	537	3,821	5,987
Phoenix, Ariz.....	(NA)	26	(NA)	228	967	41	254	424
Pittsburgh, Pa.....	2,470	306	1,784	2,622	2,471	274	1,937	2,890
Portland, Oreg.-Wash.....	1,758	58	296	598	1,832	66	394	772
Providence-Pawtucket-Warwick, R.I.- Mass.....	2,913	127	508	852	2,904	126	596	1,067
Reading, Pa.....	697	48	193	342	669	50	252	420
Richmond, Va.....	492	43	192	455	550	46	267	572
Rochester, N.Y.....	1,015	117	589	1,175	1,188	121	837	1,756
Rockford, Ill.....	487	41	206	363	580	44	272	498
St. Louis, Mo.-Ill.....	3,150	263	1,337	2,417	3,126	259	1,659	3,248
San Diego, Calif.....	755	71	448	606	911	60	452	712
San Francisco-Oakland, Calif.....	4,433	190	1,085	2,049	4,749	194	1,359	2,567
San Jose, Calif.....	773	54	340	632	1,070	98	766	1,204
Seattle-Everett, Wash.....	1,903	115	660	1,065	2,026	122	854	1,467
Springfield-Chicopee-Holyoke, Mass.- Conn.....	962	72	342	597	965	69	387	680
Syracuse, N.Y.....	760	70	367	680	753	66	411	777
Toledo, Ohio-Mich.....	742	71	338	716	992	71	487	922

See footnotes at end of table.

# No. 1145. MANUFACTURES—SUMMARY FOR SMSA'S WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1958 AND 1963—Continued

[Employees in thousands; money figures in millions of dollars]

STANDARD METROPOLITAN STATISTICAL AREA	1958				1963 (prel.)			
	Establishments	All employees <sup>1</sup>		Value added by manufacture, adjusted <sup>2</sup>	Establishments	All employees <sup>1</sup>		Value added by manufacture, adjusted <sup>2</sup>
		Number	Pay-roll			Number	Pay-roll	
Utica-Rome, N.Y. ....	473	41	195	345	462	38	214	446
Washington, D.C.-Md.-Va. ....	998	35	180	312	1,200	50	323	525
Waterbury, Conn. ....	(NA)	37	(NA)	302	463	38	223	423
Wichita, Kans. ....	446	54	280	473	506	43	287	463
Wilkes-Barre-Hazleton, Pa. ....	696	39	123	208	762	44	165	312
Wilmington, Del.-N.J.-Md. ....	369	59	372	471	460	61	476	708
Worcester, Mass. ....	792	51	241	378	773	48	267	436
York, Pa. ....	608	48	168	363	717	48	222	441
Youngstown-Warren, Ohio. ....	563	76	427	729	562	68	472	886

NA Not available.

<sup>1</sup> Includes central administrative offices or auxiliary units which serve the manufacturing establishments of a company, rather than the general public. Separate reports were obtained from such units if they were at a different location or served more than 1 establishment.

<sup>2</sup> See footnote 1; table 1143.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Manufactures: 1958*, Vol. III, and *1963 Census of Manufactures*, Series MC63(P)-8.

## No. 1146. MANUFACTURING FACILITIES ACQUIRED BY COMPANIES ENGAGED IN MANUFACTURING: 1959-1962

[Acquisition (or disposal) defined as a transfer of control of a manufacturing establishment (or group of establishments) through purchase, sale, lease, or otherwise to another company already engaged in manufacturing. Includes active plants only and both complete and partial transfers. For details, see source. "N.e.c." means not elsewhere classified]

INDUSTRY CATEGORY OF ACQUIRING COMPANY <sup>1</sup>	All companies, average manufacturing employment, 1958	COMPANIES MAKING ACQUISITIONS, 1959-1962		MANUFACTURING FACILITIES ACQUIRED					
		Number	Average employment, 1958 <sup>2</sup>	Total, 1959-1962		1961		1962	
				Number	Average employment <sup>3</sup>	Number	Average employment, 1960	Number	Average employment, 1961
<b>Total</b> .....	<b>15,387,707</b>	<b>1,841</b>	<b>5,230,173</b>	<b>3,322</b>	<b>819,683</b>	<b>774</b>	<b>225,425</b>	<b>893</b>	<b>183,832</b>
Food and kindred products .....	1,735,311	278	550,859	533	91,918	141	29,457	140	20,647
Tobacco manufactures .....	88,755	11	20,976	16	4,685	4	(D)	5	(D)
Textile mill products .....	904,273	91	253,885	157	63,338	32	11,183	34	12,967
Apparel and related products .....	1,159,674	57	72,610	106	32,481	32	11,744	38	9,717
Lumber and wood products .....	559,662	70	75,056	132	28,173	19	3,562	27	7,521
Furniture and fixtures .....	331,911	45	45,077	62	9,353	22	3,298	15	2,871
Paper and allied products .....	503,652	89	199,728	206	57,044	38	10,635	53	9,354
Printing and publishing .....	859,428	63	116,838	98	23,282	23	3,929	32	9,442
Chemicals and allied products .....	731,988	115	372,039	224	50,736	60	14,602	70	21,162
Petroleum and coal products .....	193,377	25	56,431	40	8,378	3	(D)	12	(D)
Rubber and plastics prod., n.e.c. ....	346,300	50	184,850	80	12,767	20	5,556	25	3,444
Leather and leather products .....	344,689	25	26,136	34	13,302	8	1,899	13	3,372
Stone, clay, and glass products .....	545,075	85	158,214	148	28,846	23	3,567	38	5,408
Primary metal industries .....	1,106,648	107	519,531	193	51,258	39	14,557	54	7,846
Fabricated metal products .....	987,873	156	222,877	245	38,645	55	6,525	64	6,998
Machinery, except electrical .....	1,296,314	176	395,338	268	55,715	62	10,877	78	13,752
Electrical machinery .....	1,164,806	170	619,926	323	101,946	82	29,176	75	23,247
Transportation equipment .....	1,816,047	114	1,158,308	246	106,634	51	49,700	65	13,819
Instruments and related prod. ....	310,382	63	144,909	120	23,579	35	6,022	31	5,004
Misc. mfg., incl. ordnance .....	401,562	50	36,555	91	17,605	25	6,694	24	3,301

D Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup> Industry classification based on manufacturing activities only.

<sup>2</sup> Employment in the first full year of operation was used for companies entering manufacturing after 1958.

<sup>3</sup> Employment of the acquired company is for the last full year of operation prior to the change in ownership.

Source: Dept. of Commerce, Bureau of the Census; *1962 Annual Survey of Manufactures*.

No. 1147. PERCENT OF SHIPMENTS AND EMPLOYMENT ACCOUNTED FOR BY LARGE MANUFACTURING COMPANIES, SELECTED INDUSTRIES: 1947 (OR 1950), 1954, AND 1958

[Excludes Alaska and Hawaii. First 50 industries as determined by value of shipments in 1958. Industry codes and descriptions are based on standard industrial classification (SIC) system used through 1947 and differ from those appearing in the 1958 Census of Manufactures Reports, Series MC58(2)-20A-MC58(2)-39E. For a description of the industries, see the appropriate 1954 Census of Manufactures Industry Reports MC20A-MC39E. Determination of company affiliation of establishments is based on Census reports and publicly available records. Value of shipments totals for establishments have been summarized into company totals in each manufacturing industry. "Largest" companies are determined by each company's value of shipments in the specified industry. Industries in the "not elsewhere classified" category are omitted, regardless of their value of shipments]

In- du- stry code <sup>1</sup>	INDUSTRY AND YEAR	Number of com- panies	VALUE OF SHIPMENTS			EMPLOYMENT <sup>2</sup>		
			Total <sup>2</sup> (mil. dol.)	Percent made by—		Total <sup>4</sup> (1,000)	Percent in—	
				4 largest com- panies	8 largest com- panies		4 largest com- panies	8 largest com- panies
2911	Petroleum refining.....	( <sup>9</sup> ) 277	6,624	37	59	(NA)	(NA)	(NA)
	1954.....	253	11,757	33	56	153	39	61
	1958.....	289	14,106	32	55	146	36	59
3717	Motor vehicles and parts.....	( <sup>9</sup> ) 779	6 <sup>3</sup> 545	56	64	721	59	69
	1954.....	991	6 <sup>6</sup> 111	75	80	649	69	75
	1958.....	989	6 <sup>6</sup> 419	75	81	531	70	74
3312	Blast furnaces and steel mills <sup>7</sup> .....	( <sup>9</sup> ) (NA)	2 <sup>2</sup> 845	50	66	(NA)	(NA)	(NA)
	1954.....	(NA)	5 <sup>5</sup> 014	55	71	554	54	69
	1958.....	148	5 <sup>5</sup> 980	53	70	513	52	68
2027	Fluid milk <sup>8</sup> .....	(NA)	4 <sup>4</sup> 587	22	28	191	19	24
	1954.....	(NA)	5 <sup>5</sup> 802	23	29	208	20	26
	1958.....	5,008	3 <sup>3</sup> 793	19	31	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
2612	Paper and paperboard mills.....	391	4 <sup>4</sup> 948	21	34	188	21	33
	1954.....	375	2 <sup>2</sup> 404	16	26	246	16	24
	1958.....	5,985	3 <sup>3</sup> 067	20	31	246	18	28
2051	Bread and related products.....	( <sup>9</sup> ) 5,470	3 <sup>3</sup> 689	22	33	257	19	29
	1954.....	5,305	3 <sup>3</sup> 091	21	26	267	16	20
	1958.....	8,115	1 <sup>1</sup> 891	18	24	282	14	19
2711	Newspapers.....	( <sup>9</sup> ) 8,445	3 <sup>3</sup> 616	17	24	294	15	20
	1954.....	7,947	6 <sup>6</sup> 006	( <sup>10</sup> )	( <sup>10</sup> )	186	53	73
	1958.....	( <sup>10</sup> )	3 <sup>3</sup> 349	( <sup>10</sup> )	( <sup>10</sup> )	458	( <sup>10</sup> )	( <sup>10</sup> )
3721	Aircraft.....	( <sup>10</sup> ) 113	3 <sup>3</sup> 376	59	83	377	58	82
	1954.....	54	4 <sup>4</sup> 65	72	88	67	54	79
	1958.....	202	3 <sup>3</sup> 189	62	81	167	51	75
3722	Aircraft engines.....	( <sup>9</sup> ) 186	3 <sup>3</sup> 359	56	77	159	48	69
2421	Sawmills and planing mills.....	( <sup>9</sup> ) 19,226	2 <sup>2</sup> 519	5	7	459	4	(NA)
	1954.....	16,594	3 <sup>3</sup> 247	7	11	321	5	7
	1958.....	15,731	3 <sup>3</sup> 158	8	12	268	6	9
2042	Prepared animal feeds.....	( <sup>9</sup> ) 2,372	2 <sup>2</sup> 112	19	27	(NA)	(NA)	(NA)
	1954.....	2,037	2 <sup>2</sup> 702	21	29	60	13	18
	1958.....	2,016	2 <sup>2</sup> 942	22	30	57	13	18
2033	Canned fruits and vegetables <sup>12</sup> .....	( <sup>9</sup> ) 1,856	1 <sup>1</sup> 641	27	35	131	20	29
	1954.....	1,461	2 <sup>2</sup> 229	28	39	120	40	29
	1958.....	1,347	2 <sup>2</sup> 911	29	39	123	21	29
2233	Cotton broad-woven fabrics.....	( <sup>13</sup> ) 413	2 <sup>2</sup> 913	( <sup>13</sup> )	( <sup>13</sup> )	346	14	22
	1954.....	321	2 <sup>2</sup> 790	18	29	296	18	28
	1958.....	1,323	2 <sup>2</sup> 719	25	40	242	23	37
2671	Paperboard boxes.....	( <sup>9</sup> ) 1,433	1 <sup>1</sup> 475	18	27	178	12	19
	1954.....	1,447	2 <sup>2</sup> 180	16	26	133	13	20
	1958.....	11,810	2 <sup>2</sup> 689	17	27	141	9	13
2751	Commercial printing.....	( <sup>9</sup> ) 11,970	1 <sup>1</sup> 513	9	13	196	10	14
	1954.....	13,023	2 <sup>2</sup> 202	10	16	200	10	15
	1958.....	1,600	2 <sup>2</sup> 646	10	16	198	10	15
3441	Structural and ornamental work.....	( <sup>9</sup> ) 2,829	855	23	27	91	20	23
	1954.....	3,311	1 <sup>1</sup> 810	18	23	116	16	20
	1958.....	799	2 <sup>2</sup> 590	16	21	133	15	18
3661	Radios and related products.....	( <sup>9</sup> ) 1,612	6 <sup>6</sup> 773	26	35	202	21	32
	1954.....	1,797	5 <sup>5</sup> 130	24	35	294	20	29
	1958.....	1,123	5 <sup>5</sup> 553	27	38	305	20	29
2834	Pharmaceutical preparations.....	( <sup>9</sup> ) 1,128	941	28	44	(NA)	(NA)	(NA)
	1954.....	1,064	1 <sup>1</sup> 643	25	44	77	25	40
	1958.....	35	2 <sup>2</sup> 533	27	45	82	24	39
3011	Tires and inner tubes.....	( <sup>9</sup> ) 1,547	77	90	90	78	78	80
	1954.....	27	1 <sup>1</sup> 842	79	91	93	80	91
	1958.....	38	2 <sup>2</sup> 272	74	88	87	74	87
2111	Cigarettes <sup>12</sup> .....	( <sup>9</sup> ) 19	1 <sup>1</sup> 132	90	99+	28	81	96
	1954.....	12	1 <sup>1</sup> 641	82	99+	30	75	89
	1958.....	12	2 <sup>2</sup> 159	79	99+	34	73	99+

See footnotes at end of table.

No. 1147. PERCENT OF SHIPMENTS AND EMPLOYMENT ACCOUNTED FOR BY LARGE MANUFACTURING COMPANIES, SELECTED INDUSTRIES: 1947 (OR 1950), 1954, AND 1958—Continued

Industry code <sup>1</sup>	INDUSTRY AND YEAR	Number of companies	VALUE OF SHIPMENTS				EMPLOYMENT <sup>3</sup>			
			Total <sup>2</sup> (mil. dol.)	Percent made by—		Total <sup>4</sup> (1,000)	Percent in—		4 largest companies	8 largest companies
				4 largest companies	8 largest companies		4 largest companies	8 largest companies		
3141	Footwear, except rubber..... <sup>(9)</sup>	1,077	1,727	28	35	230	22	28		
	1954.....	970	1,791	30	36	219	26	32		
	1958.....	871	2,026	27	34	215	24	31		
2082	Beer and ale..... <sup>(9)</sup>	404	1,816	21	30	81	19	30		
	1954.....	263	1,857	27	41	81	22	35		
	1958.....	211	1,980	28	44	71	24	39		
2041	Flour and meal..... <sup>(9)</sup>	1,084	2,527	29	41	34	26	35		
	1954.....	692	1,859	40	52	29	32	41		
	1958.....	703	1,970	38	51	25	31	43		
3463	Metal stampings..... <sup>(9)</sup>	1,954	1,177	17	25	(NA)	(NA)	(NA)		
	1954.....	2,215	1,728	14	21	128	12	18		
	1958.....	2,326	1,944	12	19	119	11	17		
2823	Plastics materials..... <sup>(9)</sup>	94	478	44	63	30	47	63		
	1954.....	149	1,231	47	69	41	49	68		
	1958.....	273	1,811	40	56	51	40	57		
3411	Tin cans and other tinware..... <sup>(9)</sup>	102	679	78	86	52	77	83		
	1954.....	109	1,367	80	88	55	78	85		
	1958.....	84	1,804	80	89	55	79	86		
2851	Paints and varnishes..... <sup>(9)</sup>	1,154	1,249	27	35	56	23	30		
	1954.....	1,337	1,494	27	37	57	22	30		
	1958.....	1,428	1,736	25	36	57	20	29		
2011	Meat packing plants..... <sup>(9)</sup>	1,999	6 977	41	54	209	47	59		
	1954.....	2,228	6 1,394	39	51	220	44	56		
	1958.....	2,646	6 1,677	34	46	201	36	49		
2721	Periodicals..... <sup>(9)</sup>	2,106	1,060	34	43	(NA)	(NA)	(NA)		
	1954.....	2,012	1,441	29	40	62	19	30		
	1958.....	2,245	1,651	31	41	66	21	33		
2333	Dresses, unit price <sup>12</sup> ..... <sup>(9)</sup>	4,165	1,359	3	5	(NA)	(NA)	(NA)		
	1954.....	4,072	1,455	4	7	143	2	3		
	1958.....	3,606	1,627	4	7	136	2	3		
2015	Poultry dressing plants..... <sup>(9)</sup>	330	479	32	40	(NA)	(NA)	(NA)		
	1954.....	1,189	1,258	17	23	46	19	24		
	1958.....	1,041	1,618	12	16	56	10	15		
3531	Construction and mining machinery..... <sup>(9)</sup>	489	927	18	31	70	16	26		
	1954.....	589	1,132	19	29	76	19	29		
	1958.....	705	1,585	18	28	83	19	29		
3521	Tractors..... <sup>(9)</sup>	86	891	67	88	79	76	90		
	1954.....	141	1,178	74	90	65	73	83		
	1958.....	109	1,576	69	90	60	71	89		
3273	Ready-mixed concrete <sup>15</sup> ..... <sup>(9)</sup>	3,104	1,559	4	7	61	3	6		
3599	Machine shops..... <sup>(16)</sup>	440	440	(16)	(16)	52	12	17		
	1954.....	6,795	1,108	8	13	104	8	12		
	1958.....	10,482	1,544	7	12	123	5	10		
3522	Farm machinery (except tractors)..... <sup>(9)</sup>	955	889	36	47	87	45	57		
	1954.....	1,145	1,096	38	51	74	39	50		
	1958.....	1,288	1,468	38	47	75	36	46		
2761	Lithographing..... <sup>(9)</sup>	1,380	489	13	18	(NA)	(NA)	(NA)		
	1954.....	2,879	963	8	12	78	7	11		
	1958.....	4,184	1,451	9	12	98	7	10		
3392	Wiredrawing..... <sup>(9)</sup>	103	913	45	62	54	31	44		
	1954.....	150	1,266	36	54	55	33	48		
	1958.....	157	1,448	34	50	54	32	44		
2081	Bottled soft drinks..... <sup>(9)</sup>	5,169	748	10	14	(NA)	(NA)	(NA)		
	1954.....	4,334	1,113	10	14	92	9	13		
	1958.....	3,989	1,435	11	15	96	9	13		
3443	Boiler shop products..... <sup>(9)</sup>	783	687	18	29	(NA)	(NA)	(NA)		
	1954.....	934	1,134	30	40	74	28	36		
	1958.....	1,126	1,434	37	46	82	36	44		
2825	Synthetic fibers..... <sup>(9)</sup>	22	705	78	94	72	76	94		
	1954.....	20	1,241	80	97	61	73	97		
	1958.....	17	1,419	78	96	61	66	96		
3321	Gray-iron foundries <sup>17</sup> ..... <sup>(9)</sup>	1,554	1,173	16	24	150	18	24		
	1954.....	1,321	1,419	26	34	134	19	25		
	1958.....	1,199	1,406	24	33	112	16	23		
3614	Motors and generators..... <sup>(9)</sup>	224	996	59	66	98	59	65		
	1954.....	266	1,389	50	59	112	47	56		
	1958.....	317	1,360	47	56	94	41	51		
3352	Aluminum rolling and drawing..... <sup>(9)</sup>	15	405	94	99	27	84	90		
	1954.....	77	874	88	92	37	76	84		
	1958.....	139	1,347	78	85	42	38	57		
3616	Electrical control apparatus..... <sup>(9)</sup>	(16)	579	(16)	(16)	65	40	54		
	1954.....	389	1,097	48	61	79	40	54		
	1958.....	508	1,337	49	65	80	41	58		

See footnotes at end of tables.



No. 1147. PERCENT OF SHIPMENTS AND EMPLOYMENT ACCOUNTED FOR BY LARGE MANUFACTURING COMPANIES, SELECTED INDUSTRIES: 1947 (OR 1950), 1954, AND 1958—Continued

Indus- try code <sup>1</sup>	INDUSTRY AND YEAR	Number of com- panies	VALUE OF SHIPMENTS				EMPLOYMENT <sup>3</sup>			
			Total <sup>2</sup> (mil. dol.)	Percent made by—		Total <sup>4</sup> (1,000)	Percent in—		4 largest com- panies	8 largest com- panies
				4 largest com- panies	8 largest com- panies					
2511	Wood furniture, not upholstered. . . . . <sup>(5)</sup>	2,208	899	7	11	140	6	10		
	1954. . . . .	2,731	1,113	8	13	125	7	12		
	1958. . . . .	2,742	1,311	9	13	125	8	13		
2311	Men's and boys' suits and coats. . . . . <sup>(5)</sup>	1,761	1,413	9	15	151	13	19		
	1954. . . . .	1,255	1,141	11	18	119	11	18		
	1958. . . . .	1,275	1,261	11	19	122	11	18		
2234	Synthetic broad-woven fabrics. . . . . <sup>(5)</sup>	432	1,003	31	39	97	26	34		
	1954. . . . .	396	1,143	30	39	90	28	37		
	1958. . . . .	328	1,231	34	44	83	30	40		
2337	Women's suits, coats, and skirts <sup>12</sup> . . . . .	(16)	1,093	(16)	(16)	(NA)	(NA)	(NA)		
	1954. . . . .	3,178	1,261	3	6	96	4	6		
	1958. . . . .	2,651	1,220	3	5	84	3	5		
3351	Copper rolling and drawing. . . . . <sup>(5)</sup>	56	1,064	60	77	51	51	69		
	1954. . . . .	64	1,321	53	71	42	54	73		
	1958. . . . .	70	1,218	48	68	41	47	66		

D Withheld to avoid disclosing figures for individual plants or products. NA Not available.

<sup>1</sup> Standard Industrial Classification code.

<sup>2</sup> Comprises for all manufacturing establishments classified in an industry (a) value of products "primary" to the industry, (b) value of "secondary" products, which are primary to other industries, and (c) "miscellaneous receipts" such as those for contract and commission work on materials owned by others, scrap and salable refuse, repair, etc. Excludes sales of products bought and resold in same condition. 1954 figures for some industries reflect minor revisions of previously published data.

<sup>3</sup> For 1950, number of companies not available.

<sup>4</sup> For 1950 and 1954, data represent average of all employees for payroll period ending nearest 15th of March, May, August, and November except that, for 1954, the average of all 12 months was used for several industries. For 1958, data represent average number of production workers for payroll period ending nearest 15th of March, May, August, and November plus all other employees for period ending March 15.

<sup>5</sup> Value of shipments, year 1947; for employment, 1950.

<sup>6</sup> Value added by manufacture used as basis for computing percentages because value of shipments data (used for ranking) contain substantial and unmeasurable amount of duplication.

<sup>7</sup> Based on combined figures for Industry 3311, Blast Furnaces; Industry 3312, Steelworks and Rolling Mills; Industry 2931, Beehive Coke Ovens; and Industry 2932, Byproduct Coke Ovens.

<sup>8</sup> In 1954, this industry was composed of 2 industries, 2026, Fluid Milk (only), and 2027, Fluid Milk and Other Products. 1954 figures on value of shipments and on percentages accounted for by the 4 and 8 largest companies have been recalculated on a basis comparable to 1958. In 1947, establishments primarily distributing fluid milk were classified as nonmanufacturing.

<sup>9</sup> In the 1958 Census, integrated pulp and paper companies were given the option of reporting their pulp and paper (or board) operations on a combined basis when both were conducted at a single physical location. Most integrated companies exercised this option, but a few with departmental accounting chose to report separately for the pulp mill and paper (or board) mill, as they were required to do in 1954. The only other pulp mills separately reported in the 1958 Census were (a) those exclusively selling their pulp on the market (i.e., not associated or affiliated with a paper and board mill), and (b) those pulp mills affiliated or associated with paper or board mills but operated at a different physical location. The change had little effect on comparability of value of shipments for the industry. Comparable data for 1947 not available. In 1947, Industry 2612, Paper and Paper-board Mills, was combined with Industry 2613, Building Paper and Board Mills.

<sup>10</sup> Comparable data not available. In 1954 any establishment manufacturing at least 1 complete aircraft was classified in Industry 3721, Aircraft. In 1958 an establishment manufacturing complete aircraft was classified in Industry 3721 if its value of work done on aircraft exceeded its value of shipments of any other single industry's products.

<sup>11</sup> Approximately 50 small companies were misclassified into Industry 3721, Aircraft, because of incomplete reporting of product information. However, this misclassification had only an insignificant effect on value added, on employment, and on percentages accounted for by the 4 and 8 largest companies.

<sup>12</sup> Value of production shown rather than value of shipments. Includes value of primary and secondary products made and miscellaneous receipts such as receipts for contract and commission work on materials owned by others, scrap, and other salable refuse.

<sup>13</sup> Comparable data not available.

<sup>14</sup> A number of small establishments were misclassified into Industry 3411. This misclassification, however, has no appreciable effect on the total value of shipments or on the percentages accounted for by the largest companies.

<sup>15</sup> Excluded from 1954 Census.

<sup>16</sup> Comparable data not available because of significant changes in the 1947 classification of plants or products.

<sup>17</sup> Includes, in addition to commercial (jobbing) foundries, "captive" foundries at separate locations producing gray-iron castings for other plants of the same company. Accordingly, the ratios for this industry do not reflect the market shares in the commercial foundry industry as such.

Source: Dept. of Commerce, Bureau of the Census; *Concentration Ratios in Manufacturing Industry, 1968*.

## No. 1148. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS: 1947 TO 1965

[In billions of dollars, except ratios. Prior to 1963, excludes Alaska and Hawaii. Shipments and new orders for calendar year; unfilled orders and inventories as of December 31, unadjusted for seasonal variation. Data include manufacturing activities of all companies. See *Historical Statistics, Colonial Times to 1957*, series T 378-386, for related but not comparable data]

ITEM	1947	1954	1955	1958	1960	1961	1962	1963	1964	1965
<b>Shipments, all manufacturing</b>	186.2	280.3	317.8	327.4	369.6	370.6	399.7	417.3	445.6	483.3
Durable goods industries	80.3	141.9	168.9	162.9	189.8	186.4	206.2	216.8	230.8	252.2
Nondurable goods industries	105.8	138.3	148.9	164.5	179.7	184.2	193.5	200.4	214.8	231.1
<b>Inventories, all manufacturing</b>	26.1	41.8	45.2	50.0	53.5	54.8	57.4	59.7	62.6	67.6
Durable goods industries	13.1	23.8	26.4	29.9	32.0	32.2	33.9	35.6	38.0	41.8
Nondurable goods industries	13.0	18.0	18.8	20.1	21.6	22.5	23.5	24.2	24.6	25.8
Ratio of inventories to sales: <sup>1</sup>										
All manufacturing	1.59	1.81	1.62	1.84	1.76	1.74	1.70	1.69	1.64	1.62
Durable goods	1.87	2.05	1.76	2.22	2.08	2.05	1.97	1.95	1.91	1.92
Nondurable goods	1.38	1.56	1.47	1.45	1.42	1.44	1.42	1.41	1.35	1.29
<b>Inventories by stages of fabrication:</b>										
All manufacturing	26.1	41.8	45.2	50.0	53.5	54.8	57.4	59.7	62.6	67.6
Materials and supplies	(NA)	16.5	18.2	19.0	19.7	20.1	20.7	20.9	21.6	23.2
Work in process	(NA)	12.1	13.2	15.0	15.5	16.0	17.1	17.9	19.1	21.5
Finished goods	(NA)	13.3	13.8	16.1	18.3	18.7	19.7	20.9	21.9	22.9
Durable goods industries	13.1	23.8	26.4	29.9	32.0	32.2	33.9	35.6	38.0	41.8
Materials and supplies	(NA)	8.1	9.4	10.1	10.4	10.3	10.6	10.9	11.8	13.0
Work in process	(NA)	9.7	10.7	12.2	12.6	13.0	13.9	14.6	15.7	17.8
Finished goods	(NA)	6.0	6.3	7.6	9.0	8.9	9.4	10.1	10.6	11.0
Nondurable goods industries	13.0	18.0	18.8	20.1	21.6	22.5	23.5	24.2	24.6	25.8
Materials and supplies	(NA)	8.4	8.8	8.9	9.3	9.8	10.0	10.0	9.9	10.2
Work in process	(NA)	2.3	2.5	2.7	2.8	3.0	3.2	3.3	3.4	3.7
Finished goods	(NA)	7.3	7.5	8.5	9.4	9.8	10.3	10.8	11.4	11.8
<b>New orders all manufacturing</b>	183.1	267.8	329.1	322.8	361.4	372.7	398.0	420.4	452.4	492.3
Durable goods industries	76.7	128.9	179.4	158.0	182.7	188.0	205.0	219.6	237.6	260.7
Nondurable goods industries	106.4	138.8	149.6	164.8	178.7	184.8	193.0	200.8	214.7	231.5
<b>Unfilled orders, all manufacturing</b>	34.3	48.2	60.0	48.8	45.8	47.9	46.2	49.1	56.0	64.9
Durable goods industries	28.4	45.2	56.4	45.7	43.2	44.8	43.7	46.2	53.0	61.5
Nondurable goods industries	5.9	3.0	3.7	3.1	2.6	3.1	2.6	3.0	2.9	3.4

NA Not available. <sup>1</sup> Ratios based on average inventories to average monthly sales.

Source: Dept. of Commerce, Bureau of the Census; *Manufacturers' Shipments, Inventories, and Orders: 1947-1965 Revised*, Series M3-1, and *Current Industrial Reports*, Series M3-1.

## No. 1149. MANUFACTURERS' INVENTORIES, 1963, AND AGGREGATE HORSEPOWER, 1962, BY MAJOR INDUSTRY GROUP

[As of end of year. Data based on Standard Industrial Classification, 1957, and not comparable with figures shown in the 1960 and earlier editions of the *Statistical Abstract*; see text, p. 764. "N.e.c." means not elsewhere classified]

MAJOR INDUSTRY GROUP	INVENTORIES (mil. dol.)				AGGREGATE HORSEPOWER <sup>1</sup>	
	Total	Finished products	Work in process	Materials, supplies, fuels, etc.	Total (1,000)	Per 100 production workers
<b>All industries</b>	59,913	20,448	18,119	21,346	151,498	1,249
Food and kindred products	6,761	3,787	438	2,536	11,884	1,062
Tobacco products	2,407	108	25	2,274	295	438
Textile mill products	2,568	978	719	871	5,043	643
Apparel and related products	2,166	994	395	777	250	23
Lumber and wood products	1,853	588	297	468	7,710	1,572
Furniture and fixtures	827	242	202	383	1,265	412
Paper and allied products	1,759	616	202	941	12,447	2,688
Printing and publishing	1,815	468	314	533	1,746	309
Chemicals and allied products	3,826	1,877	551	1,398	20,553	4,373
Petroleum and coal products	1,818	1,113	349	356	9,915	9,008
Rubber and plastics products, n.e.c.	1,190	625	193	372	3,549	1,191
Leather and leather products	552	216	134	202	587	191
Stone, clay, and glass products	1,520	804	194	522	8,716	1,879
Primary metal industries	6,057	1,739	1,894	2,424	33,304	3,614
Fabricated metal products	3,956	1,136	1,331	1,489	6,974	836
Machinery, except electrical	6,803	2,062	3,028	1,713	8,643	836
Electrical machinery	5,239	1,454	2,463	1,322	4,813	471
Transportation equipment	7,200	792	4,405	2,003	10,699	953
Instruments and related products	1,177	348	518	311	860	378
Miscellaneous manufactures <sup>2</sup>	1,419	501	467	451	2,215	529

<sup>1</sup> See headnote, table 1151.

<sup>2</sup> Includes privately owned and/or operated establishments classified in "Ordinance and accessories."

Source: Dept. of Commerce, Bureau of the Census; *1962 Annual Survey of Manufactures*, and *1963 Census of Manufactures*, Series M64 (AS)-3.

# No. 1150. DEFENSE-ORIENTED INDUSTRIES—SHIPMENTS, BY INDUSTRY AND CUSTOMER CATEGORIES: 1963

[In millions of dollars. Covers approximately 2,150 establishments accounting for over 95 percent of all shipments of 30 selected industries]

INDUSTRY	Total	ESTABLISHMENTS REPORTING SHIPMENTS OVER \$100,000					Other estab- lish- ments
		Total	Government			Non- gov- ern- ment	
			Total	Prime contract	Sub- contract		
All industries.....	40,404	37,364	25,023	19,783	5,240	12,341	3,040
Machinery and machine tools.....	6,144	4,746	701	484	217	4,045	1,398
Steam engines and turbines.....	526	519	95	47	48	424	7
Construction machinery.....	2,564	1,726	180	137	43	1,546	838
Metalcutting machine tools.....	876	579	66	25	40	513	297
Metalforming machine tools.....	306	133	10	3	7	123	173
Computing and related machines.....	1,872	1,789	350	272	78	1,439	83
Communications.....	8,413	8,243	5,913	4,187	1,725	2,330	170
Telephone, telegraph apparatus.....	1,672	1,596	125	103	22	1,472	76
Radio, TV, communications equipment.....	6,741	6,647	5,788	4,085	1,703	859	94
Electronic equipment.....	3,273	2,528	1,062	295	768	1,466	745
Electron and cathode ray picture tubes.....	824	688	234	108	125	455	135
Semiconductors.....	600	580	213	22	191	367	20
Electronic components, other.....	1,849	1,259	616	164	451	644	590
Aircraft.....	16,055	15,964	13,874	11,895	1,979	2,090	91
Aircraft and guided missiles.....	9,262	9,224	8,151	7,808	343	1,072	38
Engines and parts.....	3,885	3,877	3,338	2,612	727	539	8
Propellers and parts, other equipment.....	2,909	2,864	2,384	1,475	909	479	45
Shipbuilding, repairing, and ordnance, except missiles.....	3,060	2,953	2,233	2,066	167	720	107
Instruments and photographic equip- ment.....	2,353	1,844	505	330	175	1,338	509
Scientific instruments.....	418	283	198	108	90	85	135
Other instruments <sup>2</sup> .....	334	254	119	68	51	135	80
Photographic equipment.....	1,601	1,307	188	154	34	1,119	294
Miscellaneous industries <sup>3</sup> .....	1,106	1,086	735	526	209	351	20

<sup>1</sup> Includes only establishments reporting less than \$100,000 or none in government shipments.

<sup>2</sup> Includes aircraft engine instruments, except flight; other mechanical and controlling instruments (including nuclear radiation); and optical instruments and lenses.

<sup>3</sup> Reported by nonmanufacturing facilities of the manufacturing companies canvassed.

Source: Dept. of Commerce, Bureau of the Census; 1963 Census of Manufactures, Series MC63(S)-2.

# No. 1151. MANUFACTURES—HORSEPOWER OF POWER EQUIPMENT: 1899 TO 1962

[In thousands, except aggregate per 100 workers. Prior to 1954, excludes Alaska and Hawaii. Aggregate represents unduplicated rating of total installed equipment; comprises horsepower of prime movers plus horsepower of electric motors driven by purchased electric energy. Prime movers are mechanical engines and turbines which originally convert fuels or force (as wind or falling water) into work and power]

YEAR	Aggre- gate	PRIME MOVERS			ELECTRIC MOTORS			Aggre- gate per 100 pro- duction workers
		Total	Driving gener- ators	Not driving gener- ators	Total	Driven by pur- chased energy	Driven by en- ergy gener- ated at estab- lishment	
1899 .....	9,811	9,633	(NA)	(NA)	475	178	297	218
1904 .....	13,033	12,605	(NA)	(NA)	1,517	428	1,089	252
1909 .....	18,062	16,393	(NA)	(NA)	4,582	1,660	2,913	288
1914 .....	21,565	17,858	(NA)	(NA)	8,392	3,707	4,684	326
1919 .....	28,307	19,432	(NA)	(NA)	15,612	8,965	6,647	333
1925 .....	34,359	19,243	(NA)	(NA)	25,092	15,116	9,976	437
1927 .....	37,126	18,902	(NA)	(NA)	29,153	18,224	10,929	473
1929 .....	41,122	19,328	(NA)	(NA)	33,844	21,794	12,050	491
1939 <sup>1</sup> .....	49,893	21,077	13,849	7,228	44,827	28,816	16,011	652
1954 <sup>2</sup> .....	108,100	35,763	21,036	14,727	91,505	72,337	19,168	958
1962 .....	151,498	45,770	24,097	21,673	126,783	105,728	21,054	1,240

NA Not available.

<sup>1</sup> Includes revisions due primarily to differences in scope of the 1939 and 1954 Censuses.

<sup>2</sup> Includes revised figures for Industry 3851, Ophthalmic goods.

Source: Dept. of Commerce, Bureau of the Census; 1963 Census of Manufactures, Series MC63(1)-6.

## No. 1152. CAPITAL IN MANUFACTURING INDUSTRIES: 1930 TO 1963

[In billions of dollars. Prior to 1960, excludes Alaska and Hawaii. Data refer to privately owned manufacturing industries and are based on the fixed capital formation components of the gross national product. For detailed discussion, see source. See also *Historical Statistics, Colonial Times to 1957*, series P 24-26, and for data on 1947=100 base, series P 20-23 and P 27-29]

ITEM	1930	1935	1940	1945	1950	1955	1960	1961	1962	1963
Purchases of structures and equipment:										
In current dollars.....	1.8	1.0	2.2	3.6	6.3	8.6	10.5	10.3	11.0	11.8
Structures.....	.8	.3	.7	1.0	1.6	3.0	2.8	2.8	2.8	2.9
Equipment.....	1.0	.8	1.5	2.5	4.6	5.6	7.7	7.5	8.2	8.9
In 1954 dollars.....	4.5	2.4	4.7	6.2	7.3	8.5	8.5	8.3	8.8	9.5
Structures.....	2.4	.8	1.9	1.9	1.9	3.0	2.3	2.3	2.3	2.3
Equipment.....	2.1	1.6	2.8	4.3	5.4	5.5	6.2	6.0	6.6	7.2
Depreciation on structures and equipment:										
In current dollars.....	1.6	1.4	1.7	2.4	4.8	6.7	9.6	9.8	10.0	10.2
Structures.....	.6	.6	.7	1.0	1.7	2.1	2.6	2.6	2.6	2.7
Equipment.....	1.0	.9	1.0	1.4	3.0	4.6	7.0	7.2	7.4	7.6
In 1954 dollars.....	3.8	3.6	3.7	4.1	5.5	6.6	7.8	7.9	8.1	8.2
Structures.....	1.7	1.7	1.7	1.7	1.9	2.0	2.1	2.1	2.1	2.1
Equipment.....	2.1	1.8	2.0	2.4	3.5	4.6	5.6	5.8	5.9	6.1
Net formation of capital: <sup>1</sup>										
In current dollars.....	.2	-.4	.5	1.2	1.5	1.9	.9	.5	.9	1.6
Structures.....	.2	-.3	.1	.1	-.1	1.0	.2	.2	.2	.2
Equipment.....	.0	-.1	.4	1.1	1.6	.9	.7	.3	.8	1.4
In 1954 dollars.....	7	-1.1	1.0	2.1	1.8	1.9	.7	.4	.8	1.3
Structures.....	.7	-.9	.2	.1	-.1	1.0	.2	.2	.1	.2
Equipment.....	.0	-.2	.8	1.9	1.9	.9	.5	.2	.6	1.1
Real net value of structures, equipment, and inventories in 1954 dollars.....	82.7	70.1	77.4	85.0	107.9	129.4	144.5	146.0	149.2	152.1
Structures and equipment <sup>2</sup> .....	59.4	51.7	52.4	55.7	72.5	84.1	93.6	93.9	94.7	96.0
Structures.....	40.6	36.4	35.3	33.6	38.8	41.9	45.1	45.2	45.4	45.5
Equipment.....	18.9	15.3	17.1	22.1	33.7	42.2	48.5	48.7	49.4	50.4
Inventories.....	23.3	18.5	25.0	29.3	35.4	45.3	51.0	52.0	54.5	56.1

<sup>1</sup> Represents the difference between the purchase and depreciation series.

<sup>2</sup> Represents real net value of structures and equipment in preceding year plus net formation of capital for year shown.

Source: Dept. of Commerce, Office of Business Economics; *U.S. Income and Output*, and *Survey of Current Business*, July issues.

## No. 1153. MANUFACTURES—EXPENDITURES FOR NEW PLANT AND EQUIPMENT, BY MAJOR INDUSTRY GROUPS: 1954 TO 1964

[In millions of dollars. 1954, excludes Alaska and Hawaii. Covers establishments in operation and under construction. "N.e.c." means not elsewhere classified. See headnote, table 1149]

MAJOR INDUSTRY GROUP	1954 <sup>1</sup>	1958	1960	1962	1963	1964
All industries.....	8,201	9,593	10,070	10,424	11,397	13,436
Food and kindred products.....	799	1,020	1,042	1,257	1,249	1,419
Tobacco manufactures.....	28	48	47	49	54	59
Textile mill products.....	224	212	326	376	382	492
Apparel and related products <sup>2</sup> .....	77	91	85	98	120	124
Lumber and wood products.....	235	280	320	292	395	369
Furniture and fixtures.....	62	83	80	96	110	106
Paper and allied products <sup>2</sup> .....	533	651	655	750	709	886
Printing and publishing.....	237	422	402	436	464	463
Chemicals and allied products.....	1,021	1,267	1,283	1,347	1,568	1,876
Petroleum and coal products.....	705	688	485	479	414	412
Rubber and plastics products, n.e.c.....	174	197	299	353	347	400
Leather and leather products.....	29	32	35	36	35	38
Stone, clay, and glass products.....	(NA)	489	541	549	608	626
Primary metal industries.....	989	1,546	1,614	1,163	1,446	1,887
Fabricated metal products.....	459	466	483	580	571	728
Machinery, except electrical.....	(NA)	695	700	716	783	946
Electrical machinery.....	(NA)	463	616	636	702	889
Transportation equipment.....	1,003	631	725	854	1,022	1,297
Instruments and related products.....	99	124	170	191	182	165
Miscellaneous manufacturing.....					131	136
Ordinance and accessories <sup>3</sup> .....	(NA)	188	163	214	88	117

NA Not available. <sup>1</sup> Not strictly comparable with figures for later years due to differences in coverage.

<sup>2</sup> Expenditures for establishments under construction excluded from industry group in order to avoid disclosing figures for individual companies. They are, however, included in the total.

<sup>3</sup> Includes privately owned and/or operated establishments. Excludes government-owned and operated establishments.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Manufactures: 1958*, Vol. I, and 1962 and 1964 *Annual Survey of Manufactures*.

# No. 1154. MANUFACTURES—EXPENDITURES FOR NEW PLANT AND EQUIPMENT, BY STATES: 1954 TO 1963

[in millions of dollars, except percent. 1954, 1958, and 1963 data based on complete count; 1960, 1961, and 1962 based on sample and subject to sampling variability. Covers establishments in operation and under construction, except as noted]

STATE	1954	1958	1960	1961	1962		1963 (prel.)
					Expenditures	Standard error <sup>1</sup> (percent)	
United States.....	2 8,201	9,593	10,070	9,764	10,424	1	11,072
New England.....	3 424	533	618	594	660	4	637
Maine.....	59	47	55	54	49	3	63
New Hampshire.....	3 18	24	26	29	31	4	29
Vermont.....	3 9	12	14	19	20	12	16
Massachusetts.....	3 181	225	289	277	287	8	274
Rhode Island.....	28	30	36	44	49	11	43
Connecticut.....	3 130	195	198	171	224	4	213
Middle Atlantic.....	1,666	2,010	2,056	1,892	2,057	2	2,091
New York.....	581	739	742	682	758	4	777
New Jersey.....	392	454	473	468	533	2	521
Pennsylvania.....	633	816	842	742	767	2	794
East North Central.....	2,727	2,750	2,989	2,698	2,738	1	3,171
Ohio.....	771	822	806	752	776	2	856
Indiana.....	3 301	528	549	451	382	1	538
Illinois.....	575	730	719	702	769	3	775
Michigan.....	898	465	656	563	556	2	721
Wisconsin.....	3 169	204	259	229	255	2	280
West North Central.....	400	561	517	545	590	3	643
Minnesota.....	87	109	117	140	139	7	159
Iowa.....	78	103	138	125	109	5	127
Missouri.....	3 124	186	160	171	206	2	208
North Dakota.....	16	9	2	4	3	19	8
South Dakota.....	3	5	7	10	16	41	7
Nebraska.....	36	50	34	39	44	16	46
Kansas.....	3 53	99	59	57	73	5	87
South Atlantic.....	832	1,065	1,214	1,322	1,490	1	1,465
Delaware.....	3 23	28	32	58	58	2	66
Maryland.....	3 94	128	179	196	224	4	174
District of Columbia.....	7	15	22	16	15	33	13
Virginia.....	3 110	147	143	179	183	2	227
West Virginia.....	3 99	172	126	114	168	3	173
North Carolina.....	3 130	191	240	227	294	2	295
South Carolina.....	62	76	144	159	165	3	165
Georgia.....	173	156	173	148	191	3	167
Florida.....	105	152	153	225	192	8	186
East South Central.....	439	530	571	521	573	1	711
Kentucky.....	158	115	111	122	140	2	226
Tennessee.....	3 56	182	217	193	194	2	270
Alabama.....	3 82	165	202	167	129	2	152
Mississippi.....	3 37	68	41	39	109	4	63
West South Central.....	766	901	786	928	857	1	858
Arkansas.....	3 43	48	67	71	75	10	72
Louisiana.....	3 174	173	139	166	147	1	180
Oklahoma.....	52	62	66	45	46	5	64
Texas.....	479	618	515	647	588	1	541
Mountain.....	3 125	186	224	232	232	3	235
Montana.....	3 21	22	18	18	23	6	28
Idaho.....	3 19	19	37	26	27	11	14
Wyoming.....	7	7	11	10	4	18	7
Colorado.....	3 30	51	60	59	83	7	68
New Mexico.....	7	25	24	11	9	12	9
Arizona.....	14	28	35	67	39	5	49
Utah.....	3 23	30	34	36	40	1	30
Nevada.....	5	5	5	4	6	19	9
Pacific.....	2 842	1,058	1,095	1,033	1,228	2	1,261
Washington.....	3 147	160	142	141	186	3	144
Oregon.....	3 68	123	120	114	109	4	131
California.....	591	753	770	741	912	2	956
Alaska.....	(NA)	3	3	5	6	15	15
Hawaii.....	(NA)	17	61	32	14	6	16

NA Not available.

<sup>1</sup> See Technical Note, p. 765, for explanation of standard error.

<sup>2</sup> Excludes Alaska and Hawaii.

<sup>3</sup> Expenditures for establishments under construction are excluded to avoid disclosing figures for individual companies.

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Manufactures: 1958*, Vol. I, *Annual Survey of Manufactures*, and *1963 Census of Manufactures*, Series MC63(P)-3.

## No. 1155. WATER USE IN MANUFACTURING, BY MAJOR INDUSTRY GROUP: 1964

[In billions of gallons. Preliminary. For establishments reporting intake of 20 million or more gallons of water, which account for more than 95 percent of the water used in manufacturing]

MAJOR INDUSTRY GROUP	Total water intake	Fresh	Brackish <sup>1</sup> (salt)	WATER DISCHARGE		Water required if none recirculated or reused
				Total	Treated prior to discharge <sup>2</sup>	
<b>All industries</b> .....	<b>14, 055</b>	<b>11, 218</b>	<b>2, 837</b>	<b>13, 167</b>	<b>3, 833</b>	<b>30, 645</b>
Food and kindred products.....	760	681	79	689	158	1, 280
Tobacco products.....	3	3	-	2	(Z)	19
Textile mill products.....	148	146	1	135	35	311
Lumber and wood products.....	151	126	24	123	34	217
Furniture and fixtures.....	3	3	-	3	(Z)	4
Pulp, paper, and products.....	2, 072	1, 920	152	1, 947	707	6, 038
Chemicals and products.....	3, 897	2, 557	1, 341	3, 670	587	7, 614
Petroleum and coal products.....	1, 397	710	688	1, 318	1, 006	6, 159
Rubber products.....	163	162	1	155	9	336
Leather and leather goods.....	16	16	(Z)	15	7	18
Stone, clay, and glass products.....	248	209	39	219	41	386
Primary metal industries.....	4, 577	4, 149	428	4, 312	1, 178	6, 779
Fabricated metal products.....	57	56	2	53	9	128
Machinery, except electrical.....	157	129	27	149	12	287
Electrical machinery.....	103	102	1	88	15	261
Transportation equipment.....	247	193	54	237	24	663
Instruments and related products.....	30	30	(Z)	27	8	80
Miscellaneous manufactures.....	13	13	-	13	(Z)	22
Ordinance and accessories.....	13	13	-	12	3	48

- Represents zero. Z Less than 500 million gallons.

<sup>1</sup> Containing more than 1,000 parts per million of dissolved solids.

<sup>2</sup> Includes simple as well as complex treatment.

Source: Dept. of Commerce, Bureau of the Census; 1965 *Census of Manufactures, Water Use in Manufacturing*: 1964, Series MC63(P)-10.

## No. 1156. DENATURED ALCOHOL: 1930 TO 1965

[For years ending June 30. Excludes Alaska; includes Puerto Rico]

YEAR	Alcohol produced <sup>1</sup>	Denaturing facilities operated	SPECIALLY DENATURED ALCOHOL		Ethyl alcohol used for denaturation <sup>2</sup>	DENATURED ALCOHOL PRODUCED		
			Dealers operating	Users operating		Total <sup>3</sup>	Completely denatured	Speci-ally denatured <sup>3</sup>
	<i>1,000 proof gallons</i>				<i>1,000 proof gallons</i>	<i>1,000 wine gallons</i>	<i>1,000 wine gallons</i>	<i>1,000 wine gallons</i>
1930.....	193, 824	68	81	4, 306	185, 001	106, 777	59, 064	47, 713
1940.....	243, 728	40	52	4, 283	225, 161	126, 762	15, 352	111, 410
1950.....	313, 535	46	35	4, 176	322, 837	174, 674	4, 414	170, 260
1955.....	411, 840	46	35	3, 939	395, 334	213, 229	575	212, 654
1960.....	518, 724	38	43	3, 599	520, 512	279, 726	679	279, 047
1961.....	603, 674	41	41	3, 745	537, 709	289, 229	820	288, 410
1962.....	604, 255	41	44	3, 632	511, 890	276, 472	882	275, 590
1963.....	618, 165	43	44	3, 536	516, 543	279, 095	1, 114	277, 981
1964.....	647, 819	43	44	3, 569	538, 674	289, 903	2, 471	287, 432
1965.....	658, 641	46	43	3, 564	580, 137	311, 778	2, 195	309, 583

<sup>1</sup> Beginning 1961, represents alcohol and spirits, 190 proof and over, produced at distilled spirits plants.

<sup>2</sup> Through 1940, represents *withdrawals* of all products for denaturation, that is, domestic ethyl alcohol, spirits produced by registered distilleries (redesignated upon receipt at denaturing plants as alcohol), and rum. Beginning 1950, represents all products (except rum) used for denaturation, that is, domestic ethyl alcohol, imported ethyl alcohol, and spirits. Rum is included for 1940 because denatured rum is included with specially denatured alcohol, for that year.

<sup>3</sup> Prior to 1950, includes denatured rum.

Source: Treasury Dept., Internal Revenue Service; annual report, *Alcohol and Tobacco Summary Statistics*.

# **No. 1157. ALCOHOLIC BEVERAGES—PRODUCTION, TAX-PAID WITHDRAWALS, AND STOCKS: 1940 TO 1965**

[For years ending June 30. Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1967*, series P 192, for production of fermented malt liquor]

CLASS	Unit	1940	1950	1955	1960	1964	1965
<b>Beer:</b>							
Breweries operated.....	Number.....	611	407	292	229	204	197
Production.....	1,000 bbl. <sup>1</sup> .....	54,892	88,807	89,791	94,548	103,018	108,015
Tax-paid withdrawals.....	1,000 bbl. <sup>1</sup> .....	53,014	83,612	84,457	88,929	96,247	100,307
Stocks on hand, June 30.....	1,000 bbl. <sup>1</sup> .....	9,019	10,982	11,627	11,458	11,928	12,505
<b>Distilled spirits:</b>							
Production facilities operated <sup>2</sup> .....	Number.....	258	229	201	178	157	153
Warehouses operated <sup>3</sup> .....	Number.....	360	309	278	241	266	268
Production, total <sup>4,5</sup> .....	1,000 tax gal. <sup>6,7</sup> .....	143,455	208,235	182,142	285,027	191,159	206,599
Whiskey <sup>4</sup> .....	1,000 tax gal. <sup>6,7</sup> .....	98,993	118,760	103,927	149,545	102,732	117,930
Tax-paid withdrawals, total <sup>8</sup> .....	1,000 tax gal. <sup>6,7</sup> .....	128,326	144,124	153,122	177,952	192,703	204,652
Whiskey.....	1,000 tax gal. <sup>6,7</sup> .....	81,267	60,499	74,356	83,589	86,631	89,773
Stocks on hand June 30, total <sup>9</sup> .....	1,000 tax gal. <sup>6,7</sup> .....	525,395	708,562	841,496	931,509	985,977	989,794
Whiskey.....	1,000 tax gal. <sup>6,7</sup> .....	480,938	643,280	715,861	813,720	846,811	841,099
Bottled for consumption, total.....	1,000 wine gal. <sup>9</sup> .....	146,292	161,117	172,304	203,963	228,360	244,468
Whiskey.....	1,000 wine gal. <sup>9</sup> .....	92,644	139,653	139,004	146,916	164,595	161,385
<b>Still wines:</b>							
Production <sup>10</sup> .....	1,000 wine gal. <sup>9</sup> .....	212,368	297,857	380,229	511,295	652,190	565,055
Tax-paid withdrawals <sup>11</sup> .....	1,000 wine gal. <sup>9</sup> .....	82,571	135,581	136,279	147,554	161,422	162,889
Stocks on hand, June 30 <sup>11,12</sup> .....	1,000 wine gal. <sup>9</sup> .....	93,421	128,433	128,475	142,575	150,888	167,010
<b>Effervescent wines: <sup>13</sup></b>							
Production.....	1,000 wine gal. <sup>9</sup> .....	482	1,061	1,716	4,113	5,305	6,358
Tax-paid withdrawals.....	1,000 wine gal. <sup>9</sup> .....	419	1,047	1,561	3,296	4,702	5,731
Stocks on hand, June 30.....	1,000 wine gal. <sup>9</sup> .....	660	1,619	1,401	2,712	3,491	3,616

<sup>1</sup> Barrels of 31 wine gallons (see footnote 9).

<sup>2</sup> Prior to 1960, represents registered distilleries, fruit distilleries, and industrial alcohol plants. In some instances a plant was operated at different times in more than 1 of these categories and was counted in each.

<sup>3</sup> Prior to 1960, represents internal revenue bonded warehouses and industrial alcohol bonded warehouses.

<sup>4</sup> Prior to 1960, net production obtained by deducting total products used in redistillation from gross production of neutral product (spirits); thereafter, each kind of distilled spirits used in redistillation was deducted from gross production of same kind. <sup>5</sup> Excludes alcohol produced for industrial use.

<sup>6</sup> A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof, to the wine gallon. (See footnotes 7 and 9.)

<sup>7</sup> A proof gallon is the alcoholic equivalent of a U.S. gallon at 60° F, containing 50 percent of ethyl alcohol by volume.

<sup>8</sup> Includes ethyl alcohol. <sup>9</sup> A wine gallon is the U.S. gallon, equivalent to the volume of 231 cubic inches.

<sup>10</sup> Production represents total amount removed from fermenters, including distilling material. In 1965, 367,798,634 gallons of distilling materials were produced.

<sup>11</sup> Includes special natural wines. <sup>12</sup> Excludes distilling materials.

<sup>13</sup> Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Treasury Dept., Internal Revenue Service; annual report, *Alcohol and Tobacco Summary Statistics*.

## **No. 1158. TOBACCO PRODUCTS—CIGARETTES, CIGARS, AND MANUFACTURED TOBACCO: 1931 TO 1965**

Beginning 1960, for years ending June 30. Data relate to products manufactured in continuous U.S. factories and exclude cigars produced in customs bonded manufacturing warehouses. See *Historical Statistics, Colonial Times to 1967*, series P 194-196, for calendar-year data]

YEARLY AVERAGE OR YEAR	Ciga- rettes <sup>1</sup> (millions)	Cigars <sup>1</sup> (millions)	MANUFACTURED TOBACCO (1,000 lb.)						
			Total	Smoking	Scrap chewing	Fine-cut chewing	Plug	Twist	Snuff
1931-1940-----	147,922	5,122	347,057	194,039	46,277	4,182	59,532	5,716	37,311
1941-1950-----	331,097	5,593	285,169	137,913	45,364	3,892	51,145	5,872	40,983
1951-1959-----	435,343	6,080	197,705	82,185	35,943	2,888	34,807	4,338	37,544
1950-----	391,956	5,468	235,189	107,731	39,019	2,738	40,242	5,467	39,992
1955-----	412,309	5,834	199,120	79,991	35,977	2,954	36,503	4,474	39,221
1960-----	506,127	6,937	176,059	73,839	32,715	3,081	27,527	3,643	35,255
1961-----	618,031	6,648	173,704	74,854	32,594	3,126	25,981	3,332	33,816
1962-----	529,883	6,843	169,190	71,545	32,476	3,214	26,028	3,037	32,890
1963-----	543,688	6,657	167,204	69,781	33,398	3,296	25,066	2,952	32,711
1964-----	534,973	6,648	173,889	80,665	34,208	3,442	25,862	2,772	31,940
1965 (prel.)-----	563,164	8,883	169,409	74,072	33,435	3,622	25,094	2,841	30,345

<sup>1</sup> Large and small.

Source: Treasury Dept., Internal Revenue Service; annual report, *Alcohol and Tobacco Summary Statistics*.

# No. 1159. ALCOHOLIC BEVERAGES AND TOBACCO PRODUCTS—ANNUAL PER CAPITA CONSUMPTION: 1930 TO 1965

[Prior to 1960, alcoholic beverages exclude Alaska and Hawaii. Underlying data on unstemmed weights of tobacco used for tobacco products are from Department of Agriculture and Internal Revenue Service; underlying data on units of cigarettes and cigars and on product weight of smoking and chewing tobacco and snuff are mainly from Internal Revenue Service. Based on Bureau of the Census estimated population as of January 1, including Armed Forces abroad]

ITEM	1930	1940	1950	1955	1960	1964	1965
ALCOHOLIC BEVERAGES <sup>1</sup>							
Distilled spirits.....tax gallons.....	<sup>2</sup> 0.08	1.02	1.02	1.07	1.20	1.28	1.35
Domestic.....tax gallons.....	<sup>2</sup> 0.08	0.93	0.92	0.92	0.99	1.01	1.05
Imported.....tax gallons.....	<sup>2</sup> (Z)	0.09	0.10	0.15	0.21	0.27	0.30
Malt liquors.....gallons.....	( <sup>3</sup> )	12.58	17.26	16.13	15.46	15.74	16.19
Domestic.....gallons.....	( <sup>3</sup> )	12.57	17.24	16.09	15.39	15.64	16.08
Imported.....gallons.....	( <sup>3</sup> )	0.01	0.02	0.04	0.07	0.10	0.11
Wines.....gallons.....	<sup>2</sup> 0.03	0.66	0.93	0.89	0.90	0.95	0.95
Domestic.....gallons.....	<sup>2</sup> 0.03	0.63	0.91	0.85	0.84	0.87	0.87
Imported.....gallons.....	<sup>2</sup> (Z)	0.03	0.02	0.04	0.06	0.08	0.08
TOBACCO PRODUCTS							
All products <sup>4</sup> .....pounds <sup>5</sup> .....	9.66	9.62	12.29	11.99	11.82	11.54	<sup>6</sup> 11.55
Cigarettes.....number.....	1,485	1,976	3,522	3,597	4,172	4,195	<sup>6</sup> 4,262
Weight.....pounds <sup>6</sup> .....	4.21	5.35	9.54	9.49	9.64	9.20	<sup>6</sup> 9.35
Cigars <sup>7</sup> .....number.....	78	61	53	55	61	75	<sup>6</sup> 70
Weight.....pounds <sup>6</sup> .....	1.80	1.46	1.25	1.28	1.18	1.32	<sup>6</sup> 1.28
Tobacco <sup>8</sup> .....pounds <sup>6</sup> .....	3.64	2.81	1.50	1.22	0.99	0.98	<sup>6</sup> 0.91

Z Less than 0.005 gallons. <sup>1</sup> For years ending June 30.

<sup>2</sup> Includes quantities withdrawn for certain manufacturing, compounding, medicinal, and sacramental uses.

<sup>3</sup> Prohibition in force during this period. See footnote 2.

<sup>4</sup> Includes small cigars (weighing not more than 3 pounds per 1,000), not shown separately.

<sup>5</sup> Unstemmed processing weight equivalent. <sup>6</sup> Preliminary.

<sup>7</sup> Weighing more than 3 pounds per 1,000; includes cigarillos.

<sup>8</sup> Smoking and chewing tobaccos and snuff.

Source: Alcoholic beverages—Dept. of Commerce, Business and Defense Services Administration; unpublished data. Tobacco products—Dept. of Agriculture, Economic Research Service; *Tobacco Situation*, and unpublished data.

# No. 1160. CHANGES IN CIGARETTE SMOKING HABITS, BY SEX: 1959-60 TO 1961-62

[Based on a sample survey conducted during October 1959-February 1960 and a second survey of the same persons conducted during October 1961-February 1962. Covers 186,673 men and 142,233 women who participated in both surveys, were over 30 years old at the start of the study, and were smoking cigarettes regularly when questioned in 1959-60]

CIGARETTES SMOKED PER DAY, BY SEX OF SMOKER	CIGARETTES SMOKED PER DAY, 1961-62 (percent distribution)						SUMMARY OF CHANGES FROM 1959-60 (percent)		
	None or occasional	1 to 9	10 to 19	20 to 39	40 or more	Uncertain	Stopped or decreased	No change	Increased
1959-60									
Number smoked per day:									
Male—									
1 to 9.....	23.3	44.2	20.1	9.5	0.7	2.2	23.3	44.2	30.3
10 to 19.....	12.0	8.3	41.9	35.0	0.9	1.9	20.3	41.9	35.9
20 to 39.....	8.1	1.8	8.0	72.1	8.3	1.7	17.9	72.1	8.3
40 or more.....	6.5	1.4	1.7	30.8	57.8	1.8	40.4	57.8	(X)
Female—									
1 to 9.....	19.7	54.1	19.7	4.4	0.3	1.8	19.7	54.1	24.4
10 to 19.....	6.4	7.5	52.5	31.6	0.5	1.5	13.9	52.5	32.1
20 to 39.....	4.1	1.4	9.0	78.0	6.0	1.5	14.5	78.0	6.0
40 or more.....	3.1	1.2	1.5	34.8	57.7	1.7	40.6	57.7	(X)

X Not applicable.

Source: E. Cuyler Hammond and Lawrence Garfinkel, *Changes in Cigarette Smoking*, Journal of the National Cancer Institute, Vol. 33, No. 1, July 1964.



## No. 1161. BROAD-WOVEN FABRICS—PRODUCTION, BY TYPE: 1947 TO 1965

[In millions of linear yards; in terms of gray goods except woolen and worsted which are in terms of finished yardage. Excludes Alaska and Hawaii. Fabrics composed of a mixture of fibers classified according to primary fiber content, except as noted]

PRODUCT	1947	1950	1955	1960	1964	1965 (prel.)
<b>Total goods.....</b>	<b>12,371</b>	<b>13,105</b>	<b>13,119</b>	<b>12,056</b>	<b>12,767</b>	<b>13,432</b>
<b>Cotton woven goods over 12 inches in width, except tire fabrics.....</b>	<b>9,817</b>	<b>10,027</b>	<b>10,175</b>	<b>9,366</b>	<b>8,967</b>	<b>9,239</b>
Cotton duck.....	206	249	242	206	234	248
Sheeting and allied coarse and medium yarn fabrics.....	3,039	2,737	2,587	2,482	2,529	2,635
Print cloth yarn fabrics.....	3,229	3,663	3,968	3,320	2,963	3,120
Napped fabrics.....	502	413	241	202	185	176
Colored yarn fabrics.....	752	860	699	449	495	479
Fine cotton goods (all combed, part-combed, and fine carded goods).....	1,313	1,218	1,379	1,705	1,447	1,405
Towels, toweling, washcloths, and terrywoven fabrics other than towels.....	409	454	502	548	658	713
Specialties and all other fabrics.....	367	433	557	452	476	463
<b>Man-made fiber fabrics.....</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>3,545</b>	<b>3,926</b>
100 percent filament yarn fabrics.....	(1)	(1)	(1)	(1)	1,583	1,641
Chiefly rayon and/or acetate fabrics.....	(1)	(1)	(1)	(1)	852	856
Chiefly nylon fabrics.....	(1)	(1)	(1)	(1)	283	304
All other filament yarn fabrics.....	(1)	(1)	(1)	(1)	448	481
100 percent spun yarn fabrics, except blanketing. 100 percent rayon and/or acetate fabrics.....	(1)	(1)	(1)	(1)	1,260	1,535
Rayon and/or acetate blends with other fibers.....	(1)	(1)	(1)	(1)	345	326
Polyester blends with cotton.....	(1)	(1)	(1)	(1)	320	319
All other spun yarn fabrics.....	(1)	(1)	(1)	(1)	457	713
Combinations and mixtures of filament and spun yarn fabrics.....	(1)	(1)	(1)	(1)	138	178
Blanketing, silk, paper, and other specialty fabrics.....	(1)	(1)	(1)	(1)	472	519
<b>Woolen and worsted, except woven felts<sup>2</sup>.....</b>	<b>516</b>	<b>471</b>	<b>318</b>	<b>286</b>	<b>255</b>	<b>267</b>
Apparel fabrics.....	448	391	298	281	247	258
Government orders.....	(NA)	(NA)	(NA)	3	2	5
Men's and boys' clothing.....	(NA)	(NA)	(NA)	115	82	95
Women's and childrens' clothing.....	(NA)	(NA)	(NA)	163	163	158
Nonapparel fabrics.....	67	80	20	6	8	9

NA Not available.

<sup>1</sup> Not available on comparable basis due to change in fabric classification.

<sup>2</sup> 1947 and 1950, comprises all fabrics containing more than 25 percent wool; thereafter, fabrics containing 50 percent or more wool.

Source: Dept. of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and *Current Industrial Reports*, Series M22T.

## No. 1162. BLEACHED, DYED, OR PRINTED GOODS—PRODUCTION, BY TYPE: 1947 TO 1964

[In millions of linear yards. Excludes Alaska and Hawaii. Fabrics are classified by chief fiber content]

PRODUCT	1947	1950	1955	1960	1962	1963	1964 (prel.)
<b>Bleached, dyed, or printed goods.....</b>	<b>8,915</b>	<b>9,329</b>	<b>10,502</b>	<b>9,559</b>	<b>9,960</b>	<b>10,148</b>	<b>10,474</b>
Cotton.....	6,944	7,063	8,144	7,440	7,770	7,451	7,486
Man-made fiber fabrics and silk <sup>1</sup> .....	1,971	2,266	2,358	2,119	2,190	2,697	2,988
<b>Bleached and white finished goods.....</b>	<b>3,815</b>	<b>3,467</b>	<b>3,668</b>	<b>3,461</b>	<b>3,711</b>	<b>3,648</b>	<b>(2)</b>
Cotton.....	3,616	3,296	3,346	3,158	3,372	3,187	3,420
Man-made fiber fabrics and silk <sup>1</sup> .....	199	170	321	303	339	461	(2)
<b>Plain dyed and finished goods.....</b>	<b>3,176</b>	<b>3,950</b>	<b>4,320</b>	<b>4,030</b>	<b>4,197</b>	<b>4,386</b>	<b>(2)</b>
Cotton.....	1,757	2,166	2,671	2,516	2,662	2,614	2,563
Man-made fiber fabrics and silk <sup>1</sup> .....	1,419	1,784	1,648	1,514	1,534	1,772	(2)
<b>Printed and finished goods<sup>3</sup>.....</b>	<b>1,924</b>	<b>1,912</b>	<b>2,514</b>	<b>2,068</b>	<b>2,052</b>	<b>2,114</b>	<b>1,974</b>
Cotton.....	1,571	1,601	2,126	1,766	1,736	1,649	1,502
Man-made fiber fabrics and silk <sup>1</sup> .....	353	311	389	302	316	465	472

<sup>1</sup> Comprises fabrics made of rayon, acetate, nylon, silk, glass, acrylic fibers, etc.

<sup>2</sup> Separate data for bleached and plain dyed man-made fibers were not collected for 1964. The combined total was 8,500 million linear yards, of which 2,516 million were synthetics.

<sup>3</sup> Includes roller, screen, flock, and block printed fabrics.

Source: Dept. of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and *Current Industrial Reports*, Series M22S and M22S(64)-1.

## No. 1163. MILL CONSUMPTION OF NATURAL AND MAN-MADE FIBERS: 1930 TO 1965

[In millions of pounds, except per capita in pounds. Prior to 1960, excludes Alaska and Hawaii. Per capita figures based on population estimates as of July 1, including Armed Forces abroad]

YEAR	COTTON <sup>1</sup>		WOOL (scoured basis) <sup>2</sup>		MAN-MADE FIBERS				FLAX <sup>3</sup>		SILK <sup>6</sup>	
					Rayon and acetate <sup>3</sup>		Other <sup>4</sup>					
	Total	Per capita	Total	Per capita	Total	Per capita	Total	Per capita	Total	Per capita	Total	Per capita
1930.....	2,617	21.26	263	2.14	119	0.97	-	-	16	0.13	81	0.65
1935.....	2,755	21.66	418	3.28	272	2.15	-	-	13	0.10	72	0.57
1940.....	3,959	29.97	408	3.09	494	3.74	4	0.03	12	0.09	48	0.36
1945.....	4,516	32.28	645	4.61	705	5.68	50	0.36	7	0.05	1	0.01
1950.....	4,683	30.87	635	4.18	1,375	9.06	144	0.95	11	0.07	11	0.07
1955.....	4,382	26.51	414	2.50	1,455	8.80	448	2.71	8	0.05	11	0.07
1960.....	4,191	23.20	411	2.30	1,082	5.99	796	4.41	5	0.03	7	0.04
1961.....	4,081	22.22	412	2.24	1,156	6.29	905	4.93	6	0.03	7	0.04
1962.....	4,188	22.43	429	2.30	1,291	6.92	1,128	6.05	6	0.03	6	0.03
1963.....	4,040	21.33	412	2.17	1,471	7.77	1,317	6.95	7	0.04	6	0.03
1964.....	4,244	22.09	357	1.86	1,556	8.10	1,618	8.42	7	0.04	7	0.03
1965 (prel.).....	4,476	23.00	387	1.99	1,594	8.19	2,031	10.44	8	0.04	6	0.03

— Represents zero. <sup>1</sup> Reported by Bureau of the Census. For American cotton, tare as reported by Crop Reporting Board deducted. For foreign cotton, 15 pounds deducted.

<sup>2</sup> Reported by Bureau of the Census. Beginning 1950, excludes consumption in cotton and other spinning systems and consumption in batting and felt manufacture.

<sup>3</sup> From *Textile Organon*. Represents domestic shipments plus imports for consumption. Beginning 1935, includes producers waste consumed at mills.

<sup>4</sup> From *Textile Organon*. Represents domestic production less exports plus imports for consumption. Beginning 1935, includes producers waste consumed at mills.

<sup>5</sup> Through 1950, represents imports for consumption reported by Bureau of the Census plus estimated production reported by (a) Bureau of Plant Industry through 1945 and (b) Portland, Oreg., Office of Agricultural Marketing Service for 1950; beginning 1955, imports for consumption reported by Bureau of the Census.

<sup>6</sup> Compiled from reports of Bureau of the Census. For 1930, general imports less reexports; beginning 1935, imports for consumption.

Source: Dept. of Agriculture, Economic Research Service; unpublished data. (Through 1950, in Dept. of Commerce, Business and Defense Services Administration; *Wool and Man-Made Fibers in the United States*.)

## No. 1164. COTTON—SPINDLES, CONSUMPTION, AND STOCKS: 1930 TO 1965

[For years ending July 31. Excludes Alaska and Hawaii. Consumption and stocks are expressed in running bales, counting round as half bales, except foreign cotton for all years which is in equivalent 500-pound bales. See *Historical Statistics, Colonial Times to 1957*, series P 197, for total cotton consumed including linters]

YEAR	COTTON-SYSTEM SPINDLES (1,000)				Spindle hours con- sum- ing 100% cotton (bil- lions)	COTTON CONSUMED, EXCLUDING LINTERS <sup>3</sup> (1,000 bales)			STOCKS AT END OF YEAR <sup>4</sup> (1,000 bales)			
	Total in place <sup>1</sup>	Active <sup>2</sup>				Total	Cotton- growing States	Other States	Cotton, excluding linters			Lint- ers
		Total	Cotton- growing States	Other States					Total	Do- mestic	For- eign	
1930-----	34, 025	31, 245	18, 586	12, 659	88	6, 106	4, 749	1, 357	6, 528	6, 457	71	239
1935-----	30, 093	26, 701	18, 212	8, 489	73	5, 361	4, 306	1, 055	4, 060	3, 851	209	187
1940-----	24, 750	23, 586	17, 641	5, 945	97	7, 784	6, 647	1, 137	10, 094	9, 999	95	400
1945-----	23, 128	22, 675	17, 610	5, 065	112	9, 568	8, 455	1, 113	10, 339	10, 215	124	247
1950-----	22, 995	21, 790	17, 673	4, 117	109	8, 581	8, 030	821	6, 496	6, 399	97	208
1955-----	22, 273	20, 716	18, 230	2, 486	113	8, 841	8, 358	484	10, 985	10, 920	65	148
1960-----	19, 956	19, 221	17, 801	1, 420	113	9, 017	8, 670	346	7, 344	7, 307	37	305
1961-----	19, 603	18, 986	17, 770	1, 216	105	8, 252	7, 946	307	6, 738	6, 697	41	268
1962-----	19, 491	18, 764	17, 815	949	110	9, 071	8, 786	285	7, 641	7, 599	42	425
1963-----	19, 302	18, 634	17, 829	805	101	8, 391	8, 162	229	10, 936	10, 843	93	355
1964-----	19, 322	18, 472	17, 800	672	101	8, 554	8, 333	221	12, 108	12, 036	72	442
1965-----	19, 332	15, 030	14, 556	474	102	9, 171	8, 968	203	14, 061	13, 994	67	463

<sup>1</sup> Prior to 1950, represents all spindles in place used exclusively for spinning cotton; thereafter, represents all spindles in place regardless of fiber spun.

<sup>2</sup> Prior to 1950, represents sum of greatest number of cotton spindles reported by each mill as active at any time during year, regardless of length of time operated; thereafter, comprises cotton-system spindles active last day of year, regardless of type of fiber spun. On July 31, 1965, there were 15,030,000 spindles active on cotton, 1,445,000 on synthetics, 2,282,000 on other fibers and blends, and 575,000 idle.

<sup>3</sup> Includes foreign and domestic cotton.

<sup>4</sup> Cotton stocks prior to 1940 and linters stocks for all years are stocks held by consuming establishments. Cotton stocks beginning in 1940 include stocks at public storage and compresses.

Source: Dept. of Commerce, Bureau of the Census; annual report, *Cotton Production and Distribution*, and unpublished data.

# No. 1165. TIRE CORD AND FABRICS—PRODUCTION, BY KIND: 1947 TO 1965

[In thousands of pounds. Excludes Alaska and Hawaii]

PRODUCT	1947	1950	1955	1960	1964	1965
<b>Tire cord and fabrics</b> .....	565,261	523,033	524,354	417,404	469,572	495,786
<b>Man-made fibers</b> .....	214,576	296,983	456,093	387,447	458,889	486,568
Rayon tire cord and tire cord fabric.....	214,576	296,983	406,889	239,609	210,067	212,984
Nylon tire cord and tire cord fabric.....	(1)	(1)	49,204	139,082	<sup>2</sup> 236,233	<sup>2</sup> 260,168
Chafer fabric and all other tire fabrics.....	(3)	(3)	(3)	8,756	12,589	13,416
<b>Cotton</b> .....	350,685	226,050	68,261	29,957	10,683	<sup>9</sup> 2,218
Tire cord and tire cord fabrics.....	285,076	165,395	16,742	2,887	10,551	(D)
Chafer fabric and all other tire fabrics.....	<sup>3</sup> 65,609	<sup>3</sup> 60,655	<sup>3</sup> 51,519	27,070	10,132	(D)

D. Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> Data for nylon included with rayon. <sup>2</sup> Includes polyester fabrics.

<sup>3</sup> Man-made fiber chafer fabric and all other tire fabrics included with cotton chafer fabric and all other tire fabrics.

Source: Dept. of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and *Current Industrial Reports*, Series M22T.4 and M22T.4(65)-5.

# No. 1166. WOOL—PRODUCTION, PRICE, AND SUPPLY: 1946 TO 1965

[In thousands of pounds, except as indicated. Prior to 1963, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series K 240-241, for shorn production and price]

ITEM	1946-1950, average	1951-1955, average	1956-1960, average	1955	1960	1963	1964	1965 (prel.)
Stocks of apparel wool, Jan. 1 ..	(NA)	(NA)	(NA)	(NA)	100,739	77,739	72,669	72,891
Sheep and lambs shorn...1,000...	29,402	27,817	29,623	28,149	31,064	27,875	26,349	25,082
Weight per fleece.....pounds...	8.1	8.4	8.4	8.6	8.6	8.5	8.4	8.5
Shorn wool prod. (grease basis)...	238,789	234,150	250,082	241,284	265,480	238,185	221,416	213,569
Price per pound <sup>2</sup> .....cents...	49.0	<sup>3</sup> 60.4	43.9	42.8	42.0	48.5	53.2	47.1
Pulled wool production (actual)...	46,500	37,360	34,520	41,600	33,600	28,800	25,100	23,300
Total wool prod. (grease basis)...	285,289	271,510	284,602	282,884	299,080	266,985	246,516	236,869
<b>Wool, clean basis:</b>								
Total production.....	139,942	131,046	136,457	137,365	144,666	128,783	123,913	118,858
Imports of dutiable wool <sup>4</sup> .....	<sup>5</sup> 276,715	180,567	84,760	112,764	74,266	109,196	98,415	162,722
Exports of apparel wool <sup>4</sup> .....	8,687	513	1,550	83	60	162	2	<sup>7</sup> 617
Total new supply.....	407,970	311,102	219,687	250,046	218,872	237,817	222,326	280,963
Imports of duty free wool <sup>8</sup> .....	175,404	114,898	146,436	135,979	153,904	167,962	113,932	108,858

NA. Not available. <sup>1</sup> Scoured basis.

<sup>2</sup> Weighted season average price received by farmers. 1946-62, April-March marketing season; 1963, April-December; 1964 and 1965, calendar year. <sup>3</sup> Includes an allowance for wool under loan.

<sup>4</sup> Imports for consumption. Dutiable imports include all apparel wool and duty-free imports include all carpet wools. <sup>5</sup> 1946 excludes duty-free wool imported and stored in this country largely for the British Government, and later reexported; not available to domestic mills.

<sup>6</sup> Prior to 1952 reported on an actual weight basis only. <sup>7</sup> Includes carpet wool.

<sup>8</sup> Production minus exports, plus imports; stocks not taken into consideration.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*. Exports and imports from Dept. of Commerce, Bureau of the Census.

# No. 1167. WOOL—CONSUMPTION AND MANUFACTURING MACHINERY: 1947 TO 1964

[Machinery in place as of end of year, except as noted. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series P 198, for wool consumed in manufacturing]

YEAR	MACHINERY IN PLACE <sup>1</sup>					CONSUMED IN MANUFACTURING <sup>2</sup> (mil. lb.)		
	Worsted combs	Spinning spindles		Looms		Total <sup>4</sup>	Apparel class <sup>5</sup>	Carpet class
		Woolen	Worsted	Woolen and worsted	Carpet <sup>2</sup> and rug			
1947.....	2,656	1,561,198	1,920,542	38,572	5,683	698.3	525.9	172.4
1950.....	2,808	1,308,139	1,814,430	36,337	4,894	634.8	436.9	197.9
1954.....	(NA)	(NA)	(NA)	(NA)	5,411	380.8	266.3	114.5
1955.....	2,092	817,254	925,736	21,734	(NA)	413.8	281.2	132.6
1958.....	1,558	728,323	712,696	17,300	3,284	331.1	212.0	119.1
1960.....	1,498	696,525	654,480	16,058	(NA)	411.0	246.4	164.6
1964.....	1,584	530,169	692,991	<sup>6</sup> 12,940	2,050	356.7	233.9	122.7

NA. Not available. <sup>1</sup> Machinery in place is that which is set up in operating position.

<sup>2</sup> For 1954, machinery in possession. <sup>3</sup> Scoured wool, plus greasy wool reduced to scoured basis, assuming average yields varying with class, origin, grade, and whether shorn or pulled.

<sup>4</sup> Wool regarded as more or less suitable for apparel purposes; formerly "Combing and clothing."

<sup>5</sup> Beginning 1950, includes raw wool consumed on woolen and worsted systems only. <sup>6</sup> Preliminary.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M22D, Series M22E, Series M22T, and the Census of Manufactures.

## No. 1168. KNIT CLOTH AND OUTERWEAR—PRODUCTION, BY TYPE: 1947 TO 1964

[Prior to 1960, excludes Alaska and Hawaii]

PRODUCT	Unit	1947	1950	1955	1960	1962	1963	1964
<b>Finished knit cloth for sale</b> <sup>1</sup> .....	Million lb.....	152.6	162.8	181.9	247.7	314.6	345.6	419.1
Warp knit fabrics.....	Million lb.....	41.5	47.2	54.9	81.5	104.7	119.5	155.0
Circular knit fabrics.....	Million lb.....	111.1	115.6	127.0	166.2	209.9	226.1	264.1
<b>Knit outerwear:</b>								
Sweaters, jackets, and jerseys.....	1,000 dozen.....	6,677	8,733	10,119	12,903	13,020	12,911	13,271
Bathing suits and trunks.....	1,000 dozen.....	500	328	330	1,119	1,468	1,596	1,883
Knit headwear.....	1,000 dozen.....	1,556	1,599	1,426	1,450	2,078	1,992	1,497

<sup>1</sup> Beginning 1950, represents shipments.Source: Dept. of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and *Current Industrial Reports*, Series M22K and M23A.

## No. 1169. WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR—SELECTED GARMENTS CUT: 1947 TO 1965

[Prior to 1960, excludes Alaska and Hawaii]

TYPE OF GARMENT	Unit	1947	1950	1955	1960	1963	1964	1965 (prel.)
Blouses.....	1,000 dozen.....	7,496	10,764	14,889	15,571	17,411	18,493	16,869
Unit-priced dresses.....	1,000 units.....	127,791	139,607	180,445	155,374	161,735	171,914	183,725
Dozen-priced dresses.....	1,000 dozen.....	75,456	9,097	9,162	8,186	8,187	8,275	7,568
Suits.....	1,000 units.....	14,352	18,048	13,638	9,419	10,902	12,235	11,736
Skirts.....	1,000 dozen.....	2,020	4,784	6,575	8,338	8,362	7,919	8,906
Untrimmed coats.....	1,000 units.....	18,956	22,526	22,526	21,012	18,680	17,723	25,605
Fur-trimmed coats.....	1,000 units.....	1,924	2,105	1,469	2,532	4,437	5,985	

Source: Dept. of Commerce, Bureau of the Census; 1947 Census of Manufactures reports, and *Current Industrial Reports*, Series M23A and M23H.

## No. 1170. MEN'S AND BOYS' CLOTHING—SELECTED GARMENTS CUT: 1947 TO 1965

[Prior to 1960, excludes Alaska and Hawaii]

TYPE OF GARMENT	Unit	1947	1950	1955	1960	1963	1964	1965 (prel.)
Suits.....	1,000 units.....	28,882	27,145	23,857	26,419	26,573	26,739	(NA) <sup>1</sup>
Men's.....	1,000 units.....	20,428	23,695	20,280	21,316	20,561	20,343	22,412
Boys'.....	1,000 units.....	2,454	3,450	3,577	5,103	6,012	6,396	(NA)
Separate trousers <sup>1</sup> .....	1,000 units.....	60,905	65,819	67,355	100,335	116,675	128,378	138,979
Separate coats.....	1,000 units.....	5,286	8,855	10,234	14,203	14,775	14,170	(NA)
Men's and youths'.....	1,000 units.....	4,760	7,039	7,932	10,237	11,183	10,830	12,488
Boys'.....	1,000 units.....	526	1,816	2,302	3,066	3,592	3,340	(NA)
Dress and sport shirts, men's.....	1,000 dozen.....	17,042	18,100	21,757	23,208	25,143	26,946	30,328
Overalls.....	1,000 dozen.....	6,807	9,824	9,758	7,519	9,613	11,215	(NA)
Men's.....	1,000 dozen.....	4,241	6,100	4,854	2,965	4,152	4,661	4,875
Boys'.....	1,000 dozen.....	2,566	3,724	4,899	4,554	5,461	6,354	(NA)
Work shirts (includes flannel).....	1,000 dozen.....	5,815	5,796	5,067	3,763	3,786	3,862	(NA)
Men's.....	1,000 dozen.....	4,969	5,471	4,557	3,696	3,742	3,749	3,947
Boys'.....	1,000 dozen.....	866	325	510	67	44	113	(NA)

NA Not available.

<sup>1</sup> Beginning 1955, men's only.Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M23A and M23B.

## No. 1171. HOSIERY—PRODUCTION, BY TYPE: 1950 TO 1965

[In thousands of dozens of pairs. Excludes Alaska and Hawaii. Excludes slipper socks]

TYPE	1950	1955	1960	1962	1963	1964	1965
<b>All types</b> .....	<b>160,046</b>	<b>151,911</b>	<b>154,865</b>	<b>172,557</b>	<b>178,012</b>	<b>189,215</b>	<b>198,244</b>
<b>Women's and misses' (full- and knee-length)</b> .....	<b>59,033</b>	<b>59,905</b>	<b>64,875</b>	<b>72,674</b>	<b>75,979</b>	<b>83,900</b>	<b>92,323</b>
Full-fashioned.....	51,584	47,250	28,735	16,673	10,495	6,995	4,346
Nylon.....	51,032	46,981	28,604	16,588	10,414	6,916	4,305
All other.....	552	269	131	85	82	79	41
Seamless.....	7,449	12,655	36,140	56,001	65,484	76,905	87,977
Nylon.....	4,303	10,662	35,337	55,375	64,923	76,455	87,527
Other.....	3,146	1,993	803	626	561	450	450
<b>Men's</b> .....	<b>63,181</b>	<b>56,503</b>	<b>51,184</b>	<b>51,352</b>	<b>49,990</b>	<b>50,652</b>	<b>51,585</b>
Half-hose <sup>1</sup> .....	21,115	14,659	12,217	7,176	7,675	7,386	5,473
Cotton (incl. bundle goods).....	12,782	9,701	8,749	5,349	5,823	5,501	4,040
Wool (incl. bundle goods).....	3,409	2,564	1,640	1,520	1,555	1,582	1,252
Other.....	4,924	2,394	1,828	307	297	303	181
<b>Slack socks and anklets</b> .....	<b>36,630</b>	<b>37,590</b>	<b>31,716</b>	<b>35,927</b>	<b>33,195</b>	<b>33,333</b>	<b>29,087</b>
Cotton <sup>2</sup> .....	24,483	23,429	20,064	22,585	20,004	19,979	18,305
Nylon.....	3,038	9,486	7,452	9,235	9,645	9,595	8,463
Acrylic.....	(NA)	(NA)	(NA)	2,324	2,075	2,278	3,153
Other.....	9,109	4,675	4,200	1,783	1,471	1,481	1,166
<b>Crew and athletic</b> .....	<b>3 5,436</b>	<b>3 4,254</b>	<b>7,251</b>	<b>7,925</b>	<b>8,608</b>	<b>8,927</b>	<b>14,390</b>
Cotton.....	3,360	2,495	4,647	3,705	4,457	4,550	6,909
Wool.....	2,076	1,759	2,604	2,779	2,837	2,497	3,543
All other.....	(NA)	(NA)	(NA)	1,441	1,314	1,830	3,938
Knee-length.....	(NA)	(NA)	(NA)	324	512	1,006	2,635
<b>Boys', infants', and children's and misses'</b> .....	<b>37,832</b>	<b>35,503</b>	<b>38,806</b>	<b>48,531</b>	<b>52,043</b>	<b>54,663</b>	<b>54,336</b>
Boys'.....	5,722	6,156	11,306	14,109	15,489	16,419	15,995
Slack socks <sup>2</sup> .....	5,722	6,156	9,833	8,187	8,464	8,099	5,020
Crew and athletic.....	(3)	(3)	1,473	5,622	7,025	8,320	10,975
Infants'.....	7,961	5,395	6,415	7,211	7,645	7,813	7,952
Anklets.....	7,961	5,395	6,415	6,913	7,136	7,108	6,418
Crew socks.....	(NA)	(NA)	(NA)	298	509	705	1,534
<b>Children's and misses'</b> .....	<b>24,149</b>	<b>23,952</b>	<b>21,085</b>	<b>27,211</b>	<b>28,909</b>	<b>30,431</b>	<b>30,389</b>
Anklets.....	22,313	22,337	18,036	15,779	16,794	17,340	13,396
Other.....	1,836	1,615	3,049	11,432	12,115	13,091	16,993

NA. Not available.

<sup>1</sup> 1950 and 1955, full-fashioned included in "Other"; thereafter, distributed among fibers used.<sup>2</sup> 1950 and 1955, boys' anklets included with men's cotton slack socks.<sup>3</sup> 1950 and 1955, boys' and women's and misses' crew socks included with men's crew socks.Source: National Association of Hosiery Manufacturers, Charlotte, N.C.; annually in *Hosiery Statistics*.

## No. 1172. SHOES AND SLIPPERS—PRODUCTION, BY CLASS: 1947 TO 1965

[In thousands of pairs. Excludes Alaska and, prior to 1963, Hawaii, except as noted. Excludes rubber footwear]

CLASS	1947	1950	1955	1960	1963	1964	1965 (prel.)
<b>Shoes and slippers</b> .....	<b>484,964</b>	<b>522,532</b>	<b>585,369</b>	<b>1 600,489</b>	<b>604,328</b>	<b>612,789</b>	<b>630,070</b>
Footwear, except slippers.....	437,312	464,506	517,300	526,574	526,709	533,522	544,300
Shoes, sandals, and playshoes.....	429,923	456,611	509,207	514,053	509,722	516,124	535,213
Men's.....	107,486	103,361	103,661	100,578	110,703	119,182	121,771
Youths' and boys'.....	19,829	16,721	22,097	24,128	24,043	25,766	26,076
Women's.....	212,381	236,059	270,908	279,822	275,186	270,800	282,728
Misses'.....	27,026	32,706	40,755	40,234	35,539	36,915	37,884
Children's.....	27,035	29,173	33,784	32,654	30,739	30,856	34,494
Infants' and babies'.....	36,166	38,591	38,002	36,637	33,512	32,605	32,260
Athletic shoes.....	4,233	3,644	4,723	7,008	9,753	7,116	6,746
Other footwear.....	3,156	4,251	3,370	5,513	7,234	10,282	2,341
<b>Slippers for houseware</b> .....	<b>47,652</b>	<b>58,026</b>	<b>68,069</b>	<b>73,467</b>	<b>77,619</b>	<b>79,267</b>	<b>85,770</b>

<sup>1</sup> Includes production for Hawaii, not distributed by class.Source: Dept. of Commerce, Bureau of the Census; 1947 and 1958 Censuses of Manufactures reports, and *Current Industrial Reports*, Series M31A.

# NO. 1173. LEATHER—PRODUCTION, BY PRINCIPAL TYPES OF RAW STOCK: 1938 TO 1965

[In thousands. Excludes Alaska and Hawaii]

YEAR	Cattle hide	Calf and whole kip	Goat and kid	Sheep and lamb <sup>1</sup>	YEAR	Cattle hide <sup>2</sup>	Calf and whole kip	Goat and kid	Sheep and lamb <sup>1</sup>
1938.....	19,047	12,991	31,905	28,675	1953.....	24,070	9,958	32,154	28,264
1939.....	22,095	14,027	40,419	38,914	1954.....	24,210	9,366	26,496	23,796
1940.....	21,070	11,387	37,697	37,920	1955.....	25,832	10,393	26,109	26,434
1941.....	28,121	13,098	45,373	51,915	1956.....	25,908	8,546	25,103	27,241
1942.....	30,828	12,264	41,127	53,629	1957.....	25,511	9,217	22,336	25,565
1943.....	25,656	11,112	37,351	59,891	1958.....	23,818	8,069	19,992	27,453
1944.....	26,152	10,930	34,653	55,296	1959.....	23,167	6,573	22,797	27,453
1945.....	27,566	11,636	24,026	52,450	1960.....	21,969	6,332	18,835	30,478
1946.....	27,032	10,882	24,137	47,971	1961.....	22,736	6,391	14,865	31,891
1947.....	28,824	12,471	37,188	36,535	1962.....	22,623	5,981	14,213	30,321
1948.....	26,070	10,480	37,970	33,492	1963.....	21,654	5,696	14,182	31,574
1949.....	23,392	10,173	34,774	28,644	1964.....	22,834	6,535	12,874	34,878
1950.....	24,383	10,659	37,203	31,397	1965.....	23,436	6,263	14,557	30,316
1951.....	22,703	7,955	31,111	24,504					
1952.....	22,694	9,960	30,418	27,902					

<sup>1</sup> Includes the flesh side leather of split sheepskins (fleshers) and excludes the grain leather (skivers).

<sup>2</sup> Beginning 1954, includes side kip.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*. (Original source is Tanners' Council of America, Inc., New York, N.Y.)

# NO. 1174. RUBBER (NATURAL, RECLAIMED, AND SYNTHETIC)—NEW SUPPLY, DISTRIBUTION, AND STOCKS: 1945 TO 1965

[In thousands of long tons. Prior to 1962, excludes Alaska and Hawaii, except for imports and exports, which also include Puerto Rico. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic comprises SBR (including weight of oil content, beginning 1955), neoprene, butyl, and butadiene-acrylonitrile, all years; beginning 1962, also includes polyisobutylene, chlorosulfonated polyethylene, and polysulfide, silicone, acrylic, stereo, and fluorocarbon rubbers. Reclaimed comprises both natural and synthetic rubber reclaims]

ITEM	1945	1950	1955	1960	1962	1963	1964	1965
<b>New supply</b> .....	1,210	1,618	1,946	2,150	2,290	2,289	2,515	2,581
Domestic production.....	1,064	789	1,296	1,729	1,855	1,890	2,041	2,094
Natural.....	1	-	-	-	-	-	-	-
Reclaimed.....	243	313	326	293	281	281	276	280
Synthetic.....	820	476	970	1,436	1,574	1,608	1,765	1,814
<b>Imports</b> .....	146	829	649	420	435	399	474	487
Natural.....	135	802	638	411	421	380	442	446
Reclaimed.....	(Z)	1	1	(Z)	(Z)	1	1	1
Synthetic.....	10	26	11	9	14	19	32	40
<b>Distribution</b> .....	1,144	1,590	1,961	2,203	2,312	2,345	2,562	2,647
Domestic consumption.....	1,040	1,562	1,842	1,835	1,982	2,028	2,196	2,316
Natural.....	105	720	635	479	463	457	482	521
Reclaimed.....	241	304	313	277	263	264	263	272
Synthetic.....	694	538	895	1,079	1,256	1,307	1,451	1,523
<b>Exports</b> .....	104	28	118	368	330	317	366	331
Natural.....	7	9	11	12	8	18	29	37
Reclaimed.....	13	12	14	14	18	17	15	11
Synthetic.....	84	8	94	342	304	282	322	283
<b>Stocks, end of year</b> <sup>1</sup> .....	350	178	279	359	363	375	414	440
Natural.....	119	89	110	77	70	61	87	101
Reclaimed.....	28	36	31	33	30	31	30	30
Synthetic.....	203	53	138	249	262	283	297	309
<b>Deliveries from Government stockpiles, natural</b> .....	-	-	-	89	56	84	96	120

- Represents zero. Z Less than 500 long tons.

<sup>1</sup> Differences between "New supply" and "Distribution" not precisely comparable with "Stocks" due to year-end and inventory adjustments. <sup>2</sup> Includes stocks shipped for export which had not yet cleared port.

Source: Dept. of Commerce, Business and Defense Services Administration. Monthly data in *Survey of Current Business*.

## No. 1175. CHEMICALS—PRODUCTION, BY KIND: 1950 TO 1965

[Prior to 1960, excludes Alaska and Hawaii. Data for chemicals shown are restricted to a selected group composed for the most part of inorganic chemicals and related products which are sufficiently important economically to justify publication. Includes data for chemicals produced by Tennessee Valley Authority, and, beginning 1955, by Government-owned privately operated plants]

CHEMICAL	Unit	1950	1955	1960	1964	1965 (prel.)
Acetylene <sup>1</sup> .....	Mil. cu. ft.....	5,331	8,512	12,143	15,964	16,548
Aluminum chloride:						
Anhydrous (100% AlCl <sub>3</sub> ).....	Short tons.....	31,878	36,911	24,013	29,890	29,234
Liquid and crystal (32° B <sub>e</sub> ).....	Short tons.....	17,671	16,234	25,830	28,943	27,065
Aluminum sulfate (17% Al <sub>2</sub> O <sub>3</sub> ): <sup>2</sup>						
Commercial.....	Short tons.....	699,897	808,202	879,105	1,010,565	1,016,512
Iron free.....	Short tons.....	40,236	25,225	51,744	55,877	57,141
Ammonia, synthetic anhydrous.....	1,000 sh. tons...	1,566	3,252	4,818	7,634	8,607
Ammonium nitrate, original solution (100% NH <sub>4</sub> NO <sub>3</sub> ).....	1,000 sh. tons...	1,214	1,842	3,122	4,543	4,599
Ammonium sulfate, synthetic (technical) <sup>3</sup>						
Argon (refined).....	1,000 sh. tons...	1,138	1,173	859	1,626	1,952
Calcium carbide (commercial).....	Mil. cu. ft.....	50	247	570	1,072	1,273
Calcium phosphate, dibasic (100% CaHPO <sub>4</sub> ).....	1,000 sh. tons...	671	875	1,093	1,132	1,088
Carbon, activated <sup>4</sup> .....	Short tons.....	53,046	164,539	234,916	241,678	262,699
Carbon dioxide (liquid, gas, and solid) <sup>5</sup> .....	Short tons.....	37,921	48,518	59,963	78,820	86,809
Chlorine, gas <sup>6</sup> .....	Short tons.....	639,906	776,753	897,877	1,119,600	1,173,845
Chromic, yellow and orange (C.P.).....	1,000 sh. tons...	2,084	3,421	4,637	5,945	6,439
Hydrochloric acid (100% HCl).....	Short tons.....	27,098	27,059	21,372	26,516	29,204
Hydrofluoric acid, anhydrous and aqueous (100% HF).....	Short tons.....	618,784	838,249	970,167	1,264,188	1,310,026
Hydrogen, high purity (99.5-100%) <sup>7</sup> .....	Short tons.....	35,174	66,637	118,254	134,603	149,880
Hydrogen, lower purity (less than 99.5%) <sup>7</sup> .....	Mil. cu. ft.....	45,163	35,831	13,278	25,615	33,243
Hydrogen peroxide (100% by weight).....	Mil. cu. ft.....	10,787	(NA)	51,958	82,355	90,420
Molybdate chrome orange (C.P.).....	Short tons.....	3,905	6,289	28,690	45,519	52,567
Nitric acid (100% HNO <sub>3</sub> ).....	Short tons.....	1,336	2,592	6,326	9,337	9,303
Nitrogen, high purity (99.5-100%).....	1,000 sh. tons...	1,350	3,860	3,315	4,732	4,760
Nitrogen solutions (100% N).....	Mil. cu. ft.....	1,350	3,860	18,566	58,061	71,768
Oxygen, high purity (99.5-100% O).....	Short tons.....	(NA)	468,595	803,957	1,150,089	1,163,742
Oxygen, lower purity (less than 99.5%).....	Mil. cu. ft.....	17,848	29,300	57,987	158,387	182,404
Phosphoric acid (100% P <sub>2</sub> O <sub>5</sub> ).....	1,000 sh. tons...	(NA)	(NA)	1,479	2,153	1,936
Phosphorus (white and red).....	1,000 sh. tons...	594	1,315	2,087	3,283	3,845
Potassium hydroxide (88-92% KOH).....	Short tons.....	153,233	292,954	409,096	503,880	550,138
Potassium pyrophosphate (100% K <sub>4</sub> P <sub>2</sub> O <sub>7</sub> ).....	Short tons.....	61,885	70,104	102,614	123,281	174,500
Soda ash: Synthetic (58% Na <sub>2</sub> O): <sup>8</sup>	Short tons.....	(NA)	(NA)	25,934	51,714	54,742
Total crude bicarbonate equivalent <sup>9</sup> .....	1,000 sh. tons...	3,991	4,907	4,558	4,948	4,931
Finished light <sup>10</sup> .....	1,000 sh. tons...	2,050	2,701	2,238	2,290	2,239
Finished dense.....	1,000 sh. tons...	1,410	1,769	1,998	2,366	2,422
Soda ash, natural.....	1,000 sh. tons...	338	689	790	1,342	1,510
Sodium bichromate and chromate.....	Short tons.....	89,829	118,524	121,872	137,871	138,220
Sodium chlorate (100% NaClO <sub>3</sub> ).....	Short tons.....	22,085	46,972	91,585	136,251	132,689
Sodium hydroxide (caustic soda):						
Liquid (100% NaOH).....	1,000 sh. tons...	2,511	3,915	4,972	6,389	6,723
Sodium phosphate:						
Tribasic (100% Na <sub>3</sub> PO <sub>4</sub> ).....	Short tons.....	66,801	51,846	50,977	59,455	56,072
Meta (100% NaPO <sub>3</sub> ).....	Short tons.....	39,412	57,597	62,583	77,516	80,636
Tetra (100% Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> ).....	Short tons.....	85,667	102,761	90,013	111,051	106,972
Acid pyro (100% Na <sub>2</sub> H <sub>2</sub> P <sub>2</sub> O <sub>7</sub> ).....	Short tons.....	9,052	15,245	17,109	22,590	25,590
Tripoly (100% Na <sub>3</sub> P <sub>3</sub> O <sub>10</sub> ).....	Short tons.....	233,034	556,337	689,776	880,407	912,597
Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous) <sup>11</sup> .....	Short tons.....	486,203	629,168	497,348	564,579	589,813
Sodium sulfate:						
High purity (more than 99% Na <sub>2</sub> SO <sub>4</sub> ).....	Short tons.....	184,254	256,549	303,235	389,518	389,495
Glauber's salt (100% Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O).....	Short tons.....	185,626	149,177	31,902		
Lower purity (99% or less Na <sub>2</sub> SO <sub>4</sub> ).....	Short tons.....	561,395	737,599	737,996	1,026,061	1,002,939
Sulfuric acid, gross (100% H <sub>2</sub> SO <sub>4</sub> ) <sup>12</sup> .....	1,000 sh. tons...	13,029	16,255	17,883	22,024	24,822
Titanium dioxide (composite and pure) (100% TiO <sub>2</sub> ).....	Short tons.....	298,618	408,836	455,583	558,536	575,295

NA Not available. <sup>1</sup> Excludes quantities of acetylene produced and consumed by railroad shops, shipyards, and small establishments using portable generators.

<sup>2</sup> Excludes quantities produced and consumed by municipalities.

<sup>3</sup> Excludes byproduct coke-oven production.

<sup>4</sup> Includes data for decolorizing and water purification grades only.

<sup>5</sup> Excludes quantities produced and consumed in plants manufacturing soda ash or urea.

<sup>6</sup> Total production, including quantities liquefied for use, storage, or shipment.

<sup>7</sup> Beginning 1955, excludes quantities produced and consumed in manufacture of methanol and ammonia, produced by ammonia dissociation process, or disposed of as waste, e.g., vented, used as fuel, etc.

<sup>8</sup> Ammonia soda and caustic carbonation processes.

<sup>9</sup> Includes quantities used to manufacture caustic soda, sodium bicarbonate, and finished light and dense soda ash. <sup>10</sup> Excludes quantities converted to finished dense soda ash.

<sup>11</sup> Prior to 1960, includes amounts produced and consumed in making meta-, ortho-, and sesquisulfates; beginning 1960, excludes these amounts. <sup>12</sup> Includes Glauber's salt converted to 100% Na<sub>2</sub>SO<sub>4</sub>.

<sup>13</sup> Includes sulfuric acid of oleum grades.

Source: Dept. of Commerce, Bureau of the Census; compiled from manufacturers' reports and published in *Current Industrial Reports*, Series M28A.

**No. 1176. SYNTHETIC ORGANIC CHEMICALS—PRODUCTION AND SALES, BY GROUP:**  
1960, 1963, AND 1964

(Production and sales in millions of pounds; sales value in millions of dollars. Excludes Alaska and Hawaii)

GROUP	1960			1963			1964		
	Pro- duc- tion	Sales	Sales value	Pro- duc- tion	Sales	Sales value	Pro- duc- tion	Sales	Sales value
<b>Synthetic organic chemicals</b> .....	53,952	28,760	6,662	70,343	37,046	7,793	78,678	42,766	8,458
<b>Cyclic</b> .....	17,818	10,735	3,237	22,490	13,478	3,632	25,506	15,242	3,891
Intermediates.....	9,602	3,964	622	12,768	5,429	643	14,896	6,470	711
Dyes.....	156	148	192	204	187	240	184	178	264
Synthetic organic pigments.....	40	33	64	39	34	80	44	35	84
Medicinal chemicals.....	77	55	521	94	74	605	98	77	612
Flavor and perfume materials.....	33	26	37	41	35	51	50	41	57
Plastics and resin materials.....	2,716	2,228	628	3,489	2,886	737	3,915	3,256	777
Rubber-processing chemicals.....	170	130	85	199	153	102	222	162	109
Elastomers (synthetic rubbers).....	2,283	1,949	469	2,174	1,926	434	2,332	1,961	451
Plasticizers.....	445	384	103	622	558	103	718	690	120
Surface-active agents.....	977	927	147	1,809	1,222	160	1,348	1,245	165
Pesticides and other organic agri- cultural chemicals.....	525	455	203	597	498	286	585	523	317
Miscellaneous.....	793	435	165	953	477	191	1,115	604	224
<b>Acyclic</b> .....	36,134	18,026	3,425	47,853	23,569	4,162	53,172	27,525	4,567
Medicinal chemicals.....	37	33	35	45	40	34	47	42	33
Flavor and perfume materials.....	22	21	23	32	32	26	41	39	27
Plastics and resin materials.....	3,427	3,119	1,025	5,479	4,630	1,266	6,188	5,471	1,343
Rubber-processing chemicals.....	29	22	16	34	24	17	38	23	14
Elastomers (synthetic rubbers).....	669	602	229	1,011	911	332	1,089	996	359
Plasticizers.....	157	116	45	213	192	65	234	215	68
Surface-active agents.....	555	472	131	672	567	165	771	655	185
Pesticides and other organic agri- cultural chemicals.....	122	115	59	166	153	83	198	170	111
Miscellaneous.....	31,115	13,525	1,861	40,200	17,019	2,178	44,567	19,915	2,427

Source: U.S. Tariff Commission; annual report, *Synthetic Organic Chemicals, U. S. Production and Sales*.

**No. 1177. INDUSTRIAL EXPLOSIVES SOLD FOR CONSUMPTION IN THE UNITED STATES: 1930 TO 1964**

(In thousands of pounds. Prior to 1959, excludes Hawaii. Excludes exports)

YEAR	Total <sup>1</sup>	Per- mis- sible explosives <sup>2</sup>	High explosives other than permissible <sup>3</sup>	Black blast- ing pow- der	YEAR AND USE	Total	Per- mis- sible explosives <sup>2</sup>	High explosives other than permissible <sup>3</sup>	Black blast- ing pow- der
1963									
1930.....	445,090	53,826	291,391	99,873	Coal mining.....	1,506,044	75,150	428,304	757
1935.....	308,381	39,170	200,324	68,888	Metal mining.....	252,800	74	252,726	1
1940.....	423,369	58,436	305,180	59,753	Quarrying and non- metal mining.....	320,633	560	319,819	253
1945.....	457,311	97,407	322,956	36,948	Railway and other construction work.....	305,837	227	305,530	80
1950.....	719,841	109,420	575,962	20,655	Seismograph.....	61,049	7	61,040	2
1954.....	715,955	75,863	612,054	10,297	All other purposes.....	9,561	302	9,214	45
1955.....	806,878	93,718	687,226	6,624					
1956.....	1,026,780	104,934	898,524	5,598					
1964									
1957.....	1,034,631	104,522	912,589	3,684	Coal mining.....	1,549,285	75,950	470,702	450
1958.....	961,597	84,085	864,117	2,492	Metal mining.....	318,300	117	318,176	6
1959.....	1,048,576	83,520	955,916	2,333	Quarrying and non- metal mining.....	361,245	741	360,312	193
1960.....	1,172,998	80,577	1,089,216	1,537	Railway and other construction work.....	332,120	291	331,716	113
1961.....	1,203,621	73,439	1,126,427	1,521	Seismograph.....	91,238	28	91,205	5
1962.....	1,312,406	72,884	1,236,056	1,222	All other purposes.....	13,363	280	12,904	179
1963.....	1,455,924	76,319	1,376,633	1,138					
1964.....	1,665,551	77,406	1,585,015	946					

<sup>1</sup> Beginning 1950, totals include sales of liquid oxygen explosive. For 1961, 1962, 1963, and 1964, such sales amounted to 2,235,000, 2,243,000, 1,834,000 and 2,184,000 pounds, respectively, all for use in coal mining.

<sup>2</sup> Represents type of high explosives approved by Bureau of Mines as suitable for safe use in coal mines provided specifications of use are followed.

<sup>3</sup> For 1950, 1957, and 1959 through 1964, includes prilled and/or grained ammonium nitrate blasting agents, both the completely processed variety and the not further processed.

Source: Dept. of the Interior, Bureau of Mines; *Consumption of Industrial Explosives*.



# No. 1178. ASPHALT AND TAR ROOFING AND SIDING PRODUCTS—SHIPMENTS: 1950 TO 1965

[In thousands of squares, except as noted. Prior to 1960, excludes Alaska and Hawaii]

PRODUCT	1950	1955	1960	1962	1963	1964	1965 (prel.)
<b>Asphalt roofing</b> .....	65,024	62,582	59,959	64,404	64,489	71,075	72,696
Smooth-surfaced.....	14,377	11,502	8,919	9,797	11,145	12,816	15,381
Mineral-surfaced.....	14,116	12,902	12,835	13,163	12,964	13,401	13,203
Strip shingles.....	32,109	33,915	33,811	36,627	36,101	40,163	39,900
Self-sealing.....	(NA)	(NA)	(NA)	9,000	8,133	11,096	14,687
Standard or regular.....	(NA)	(NA)	(NA)	27,627	27,968	28,467	25,213
Individual shingles.....	4,422	4,263	4,393	4,817	4,279	4,695	4,212
<b>Asphalt sidings</b> .....	2,009	1,288	872	799	797	720	644
Roll form.....	1,659	1,066	754	709	713	650	596
Shingle form.....	350	223	138	90	84	70	48
Insulated siding, all types and finishes.....	2,402	2,195	1,131	926	843	680	603
<b>Saturated felts</b> .....1,000 short tons..	721	1,039	983	990	990	995	973
Asphalt.....	621	905	898	924	940	946	920
Tar.....1,000 short tons..	100	134	85	66	50	49	53
Saturated and coated sheathings.....short tons..	12,025	9,723	11,859	11,436	11,997	10,876	8,770

NA Not available.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M29A.

# No. 1179. STRUCTURAL CLAY, PRODUCTS—PRODUCTION AND SHIPMENTS, BY KIND: 1950 TO 1965

[Prior to 1963, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series P 212, for production of brick]

PRODUCT	1950	1955	1960	1963	1964	1965
<b>Brick (building or common and face):</b>						
Production.....million standard bricks..	6,333	7,902	6,943	7,414	7,868	8,212
Shipments: Quantity.....million standard bricks..	6,486	7,741	6,502	7,405	7,744	8,089
Value.....million dollars..	164	233	224	267	285	301
<b>Facing tile (structural), ceramic glazed, inc. glazed brick:</b>						
Production.....million brick equivalent..	(NA)	455	378	374	343	315
Shipments: Quantity.....million brick equivalent..	(NA)	446	370	353	333	303
Value.....million dollars..	(NA)	31	31	29	28	25
<b>Facing tile (structural), unglazed and salt glazed:</b>						
Production.....million tiles..	(NA)	26	14	8	8	6
Shipments: Quantity.....million tiles..	(NA)	26	12	9	7	6
Value.....million dollars..	(NA)	4	3	2	2	1
<b>Structural clay tile, except facing:</b>						
Production.....1,000 short tons..	1,294	935	496	325	307	291
Shipments: Quantity.....1,000 short tons..	1,817	929	488	343	311	313
Value.....million dollars..	15	12	8	6	5	5
<b>Vitrified clay sewer pipe and fittings:</b>						
Production.....1,000 short tons..	1,549	2,112	1,955	1,860	1,891	1,819
Shipments: Quantity.....1,000 short tons..	1,568	2,056	1,855	1,772	1,837	1,722
Value.....million dollars..	53	84	95	98	104	103
<b>Clay floor and wall tile and accessories:</b>						
Production.....million square feet..	125	233	242	275	296	237
Shipments: Quantity.....million square feet..	127	233	233	267	286	253
Value.....million dollars..	62	128	130	138	145	141
Glazed wall tile: <sup>1</sup>						
Production.....million square feet..	(NA)	(NA)	(NA)	(NA)	225	215
Shipments: Quantity.....million square feet..	(NA)	(NA)	(NA)	(NA)	217	211
Value.....million dollars..	(NA)	(NA)	(NA)	(NA)	112	107
Glazed ceramic mosaic tile: <sup>1,2</sup>						
Production.....million square feet..	(NA)	(NA)	(NA)	(NA)	4	4
Shipments: Quantity.....million square feet..	(NA)	(NA)	(NA)	(NA)	4	4
Value.....million dollars..	(NA)	(NA)	(NA)	(NA)	3	2
Unglazed ceramic mosaic tile: <sup>1,2</sup>						
Production.....million square feet..	(NA)	(NA)	(NA)	(NA)	36	35
Shipments: Quantity.....million square feet..	(NA)	(NA)	(NA)	(NA)	36	35
Value.....million dollars..	(NA)	(NA)	(NA)	(NA)	18	18
Quarry tile: <sup>1</sup>						
Production.....million square feet..	(NA)	(NA)	(NA)	(NA)	31	33
Shipments: Quantity.....million square feet..	(NA)	(NA)	(NA)	(NA)	30	33
Value.....million dollars..	(NA)	(NA)	(NA)	(NA)	12	14

NA Not available. <sup>1</sup> Prior to 1964, not collected separately.

<sup>2</sup> Tiles having a facial area of less than 6 square inches.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M32D.

## NO. 1180. REFRACTORIES—SHIPMENTS: 1963 TO 1965

[Excludes shipments of ground crude fire clay, high alumina clay, silica fire clay, and dead-burned magnesite or magnesite for direct use as finished refractory products, but not classified as refractories under the Standard Industrial Classification System]

PRODUCT	Unit	1963		1964		1965 (prel.)	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
<b>Clay refractories</b> .....	(X)	(X)	176,280	(X)	201,809	(X)	225,151
Bricks and shapes:							
Fire clay (incl. semisilica), except superduty.....	M 9" equiv.	276,699	44,161	289,955	45,863	306,510	49,450
Fire clay, superduty.....	M 9" equiv.	67,497	10,185	72,307	21,160	85,570	25,836
High alumina <sup>1,2</sup> (50% Al <sub>2</sub> O <sub>3</sub> and over).....	M 9" equiv.	32,696	15,373	38,443	19,150	45,970	23,756
Ladle brick.....	M 9" equiv.	184,961	20,705	224,035	25,827	221,506	26,642
Sleeves, nozzles, runner brick and tuyeres.....	M 9" equiv.	42,457	9,361	48,800	11,590	49,768	12,491
Glass-house pots, tank blocks <sup>2,3</sup> .....	Short tons	13,516	4,391	12,667	4,291	15,739	5,318
Insulating firebrick and shapes.....	M 9" equiv.	44,302	11,337	53,772	13,443	65,064	16,670
1600° F to 1999° F.....	M 9" equiv.	5,742	1,217	7,101	1,455	7,804	1,679
2000° F to 2299° F.....	M 9" equiv.	12,037	2,316	15,917	2,985	15,152	2,776
2300° F to 2799° F.....	M 9" equiv.	26,523	7,804	25,854	7,014	35,375	9,437
2800° F and higher.....	M 9" equiv.			4,900	1,989	6,733	2,778
Hot top refractories.....	Short tons	61,621	4,429	73,345	5,219	70,259	5,029
Clay kiln furniture, radiant heater elements, potters' supplies <sup>4</sup> .....	Short tons	(S)	7,508	(S)	8,544	(S)	8,240
Refractory bonding mortars: <sup>5</sup>							
Air-setting wet and dry types.....	Short tons	53,503	6,290	59,485	7,051	63,818	7,626
Other types.....	Short tons	9,115	883	11,948	1,189	13,194	1,326
Plastic refractories and ramming mixes <sup>2,6</sup> .....	Short tons	165,668	13,638	180,659	15,718	192,959	17,706
Castable refractories (hydraulic setting):							
Clay <sup>2</sup> .....	Short tons	120,971	12,075	137,846	14,067	155,203	15,861
Insulating.....	Short tons	18,310	2,338	26,394	3,370	29,773	3,940
Other clay refractory materials sold in lump or ground form <sup>7</sup> .....	Short tons	202,936	4,606	206,608	5,327	196,482	5,260
<b>Nonclay refractories</b> .....	(X)	(X)	251,809	(X)	295,750	(X)	312,839
Bricks and shapes:							
Silica.....	M 9" equiv.	119,290	22,499	127,781	23,981	109,911	21,595
Magnesite and magnesite-chrome <sup>8</sup> .....	M 9" equiv.	79,456	69,952	104,504	94,085	107,681	98,914
Chrome and chromo-magnesite <sup>9,10</sup> .....	M 9" equiv.	35,292	27,906	39,490	30,550	32,516	25,920
Graphite crucibles, retorts <sup>11</sup> .....	Short tons	13,024	10,077	15,073	11,572	17,723	13,462
Mullite <sup>10,12</sup> .....	M 9" equiv.	5,929	7,058	5,589	7,148	6,422	8,396
Extra-high alumina <sup>10,13</sup> .....	M 9" equiv.	3,173	5,661	3,881	7,779	3,551	8,493
Silicon carbide <sup>14</sup> .....	M 9" equiv.	2,954	9,552	3,298	11,178	3,489	11,654
Zircon and zirconia <sup>15</sup> .....	M 9" equiv.	953	3,867	947	3,814	1,239	4,653
Forsterite, molten cast, dolomite <sup>16</sup> .....	M 9" equiv.	(S)	30,314	(S)	30,394	(S)	35,829
Mortars:							
Basic bonding <sup>17</sup> .....	Short tons	223,990	19,655	118,861	10,195	136,078	11,653
Other.....	Short tons			138,866	13,827	138,667	13,720
Nonclay refractory castables <sup>18</sup> .....	Short tons	13,255	2,060	20,825	3,194	25,057	4,300
Plastic refractories and ramming mixes (wet and dry types):							
Basic <sup>19</sup> .....	Short tons	182,695	21,979	153,172	16,292	158,758	17,696
Other.....	Short tons			32,514	7,651	37,344	9,081
Other nonclay refractory materials sold in lump or ground form <sup>7,20</sup> .....	Short tons	233,140	21,229	277,125	24,090	304,430	27,583
Ground crude fire clay, high alumina clay and silica fire clay <sup>7,21</sup> .....	Short tons	324,907	3,232	351,050	3,458	428,461	4,387
Dead-burned magnesite or magnesite <sup>7</sup> .....	Short tons	198,002	12,947	250,049	15,175	225,325	14,370

S Withheld because data did not meet publication standards. X Not applicable.

<sup>1</sup> Made substantially of calcined diaspore or bauxite. "Calcined" as applied to diaspore and bauxite implies heat treatment short of fusion for volume stability prior to use in a refractory product.

<sup>2</sup> Excludes mullite and extra-high alumina refractories, included under nonclay refractories.

<sup>3</sup> Includes feeder parts and upper structure shapes used only for glass tanks.

<sup>4</sup> Includes other miscellaneous shaped refractory items.

<sup>5</sup> Bonding mortars containing more than 60% Al<sub>2</sub>O<sub>3</sub> dry basis included under nonclay refractories.

<sup>6</sup> Includes products referred to as plastic firebrick and the less plastic materials intended for ramming into place after the addition of water (when shipped in dry form).

<sup>7</sup> Represents only shipments by establishments classified in "manufacturing" industries and excludes shipments to refractory producers for manufacture of brick and other refractories. Other clay refractory includes calcined clay, ground brick, and siliceous and other gunning mixes.

<sup>8</sup> Magnesite predominating. Excludes molten cast and fused magnesite.

<sup>9</sup> Chrome predominating. <sup>10</sup> Excludes molten cast.

<sup>11</sup> Includes stopper heads and other shaped refractories containing natural graphite.

<sup>12</sup> Made predominantly of kyanite, sillimanite, andalusite, or synthetic mullite.

<sup>13</sup> Made predominantly of fused bauxite, fused or dense-sintered alumina.

<sup>14</sup> Made predominantly of silicon carbide. <sup>15</sup> Made predominantly of zircon or zirconia.

<sup>16</sup> Includes dolomite-magnesite, pyrophyllite and other nonclay brick and shapes.

<sup>17</sup> Magnesite or chrome ore predominating. <sup>18</sup> Hydraulic setting.

<sup>19</sup> Magnesite, dolomite, or chrome ore predominating. <sup>20</sup> Includes carbon refractories and gunning mixes.

<sup>21</sup> Includes refractory clays subjected to no treatment other than grinding (and usually screening) or weathering or both.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M32C.

# NO. 1181. PRESSED AND BLOWN GLASSWARE—VALUE OF SHIPMENTS, BY CLASS: 1954 TO 1964

[In thousands of dollars. Prior to 1962, excludes Alaska and Hawaii. Through 1963 comprises products manufactured from glass produced in reporting establishment; beginning 1964, comprises glassware made from glass received from other establishments (interplant transfers and purchased glass); therefore, data for 1964 not strictly comparable with earlier years]

CLASS	1954	1958	1960	1962	1963	1964
<b>Total value.....</b>	<b>379, 754</b>	<b>386, 048</b>	<b>478, 782</b>	<b>502, 979</b>	<b>518, 505</b>	<b>600, 912</b>
Table, kitchen, art, and novelty glassware.....	123, 478	149, 006	188, 534	195, 669	216, 226	256, 213
Machine-made:						
Tumblers, goblets, and other stemware.....	43, 523	50, 887	53, 950	58, 833	63, 721	73, 479
Tableware <sup>1</sup> .....	24, 113	27, 401	30, 558	92, 866	106, 184	121, 592
Ornamental, decorative, novelty glassware and smokers' accessories.....	55, 842	70, 718	<sup>2</sup> 70, 423	12, 347	13, 303	18, 437
Handmade.....			33, 603	31, 623	33, 018	(D)
Lighting and electronic glassware.....	162, 390	143, 286	169, 894	198, 221	210, 261	245, 162
Bowls and enclosing globes (all types), shades, reflectors, and torchers <sup>3</sup> .....	16, 185	16, 756	16, 998	20, 494	21, 673	29, 352
Tubing, cane, and other glass parts for electronic tubes and devices and electric light bulbs <sup>4</sup> .....	127, 400	109, 023	131, 454	177, 727	188, 588	215, 810
All other lighting and electronic glassware.....	18, 805	17, 507	21, 442			
All other pressed and blown glassware.....	93, 886	93, 756	120, 354	109, 089	92, 018	99, 537
Scientific and laboratory glassware.....	23, 785	24, 465	30, 115	35, 417	<sup>5</sup> 49, 092	(D)
Industrial glassware.....	16, 369	14, 825	18, 262	23, 006	24, 218	26, 935
Other pressed and blown glassware, not elsewhere classified.....	53, 732	54, 466	71, 977	50, 666	18, 708	20, 322

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup> Beginning 1962, includes kitchenware and cookingware.

<sup>2</sup> Includes ornamental, decorative, novelty glassware and smokers accessories.

<sup>3</sup> Includes lantern globes (oil and electric), lamp chimneys, and lamp parts.

<sup>4</sup> Includes electric light bulbs, electronic tube blanks and television tube blanks and parts.

<sup>5</sup> Includes tubing, rods, and canes, all types (except electrical and electronic).

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M32E.

# NO. 1182. IRON AND STEEL—WHOLESALE PRICE INDEXES: 1940 TO 1966

[1937-59=100. Prior to 1961, excludes Alaska and Hawaii; for treatment in index weights, see text, p. 349]

YEAR	Iron and steel, total	STEEL MILL PRODUCTS			Pig iron and ferro-alloys	Iron ore	Scrap, iron and steel	Foundry and forge shop products
		Total	Finished	Semi-finished				
1940.....	37.7	36.7	37.3	31.5	(NA)	(NA)	(NA)	(NA)
1945.....	39.3	37.9	38.5	32.9	(NA)	(NA)	(NA)	(NA)
1950.....	66.9	62.9	63.1	60.7	69.8	69.9	101.0	67.6
1955.....	83.2	81.8	81.9	81.9	83.7	91.1	101.0	82.0
1960.....	100.6	102.1	102.1	102.0	96.3	97.1	79.9	103.1
1961.....	100.7	101.7	101.7	101.8	94.7	98.1	84.7	103.4
1962.....	99.3	101.4	101.4	101.8	91.1	93.9	69.0	103.6
1963.....	99.1	102.0	102.0	102.3	81.8	93.1	66.5	103.6
1964.....	100.5	102.8	102.8	103.5	77.7	90.6	79.3	104.7
1965.....	101.4	103.3	103.3	103.3	80.2	90.5	81.6	106.1
March.....	101.3	103.0	102.9	103.4	80.0	90.5	85.3	105.6
1966, March (prel.).....	102.3	104.4	104.4	103.3	80.0	90.5	82.0	107.2

NA Not available.

Source: Dept. of Labor, Bureau of Labor Statistics; monthly and annual reports, *Wholesale Prices and Indexes*.

**No. 1183. PIG IRON AND FERROALLOYS—FURNACES, PRODUCTION, AND MATERIALS USED: 1940 TO 1965**

[In thousands of short tons, except number of furnaces. See *Historical Statistics, Colonial Times to 1857*, series P 233, for blast furnace capacity]

ITEM	1940	1945	1950	1955	1960	1963	1964	1965
Blast furnaces, total number, Jan. 1.....	232	243	248	261	263	247	244	239
Number in blast, Jan. 1.....	195	218	218	206	229	138	147	191
Blast furnace production.....	46,979	54,166	65,440	77,790	67,320	72,375	86,212	88,859
Pig iron.....	46,072	53,223	64,587	76,857	66,481	71,844	85,600	88,185
Ferroalloys.....	907	943	853	932	839	531	611	674
Electric furnace production, ferroalloys.....	419	753	961	1,474	1,246	1,340	1,721	2,059
<b>Total production.....</b>	<b>47,399</b>	<b>54,919</b>	<b>66,400</b>	<b>79,264</b>	<b>68,566</b>	<b>73,715</b>	<b>87,933</b>	<b>90,918</b>
Basic.....	33,988	39,867	49,880	62,485	58,261	64,950	78,398	80,431
Bessemer and low-phosphorus.....	7,835	8,570	8,426	7,699	3,791	2,957	2,923	2,935
Foundry (incl. ferrosilicon) <sup>1</sup> .....	2,791	3,067	3,646	3,558	2,152	2,086	2,223	2,304
Malleable.....	1,832	2,350	3,181	3,531	2,673	2,186	2,274	2,806
Ferromanganese and spiegeleisen.....	747	706	777	955	878	679	867	1,009
All other <sup>1</sup> .....	206	360	490	1,035	811	856	1,248	1,433
<b>Materials used: <sup>2</sup></b>								
Iron and manganese ore and agglomerated products.....	79,672	91,276	112,156	127,753	104,608	109,925	131,085	133,470
Mill clinder, scrap, scale, etc.....	7,480	9,749	10,731	15,210	9,034	9,885	11,437	11,272
Coke.....	40,451	48,965	59,549	67,061	49,772	48,067	56,065	57,880
Limestone, dolomite, etc.....	16,678	20,863	27,708	29,744	15,868	14,005	16,819	17,942

<sup>1</sup> Prior to 1964, silvery pig iron included in "Foundry"; thereafter, in "All other."

<sup>2</sup> Materials consumed in manufacture of pig iron only.

Source: American Iron and Steel Institute, New York, N. Y.; *Annual Statistical Report*.

**No. 1184. PIG IRON AND FERROALLOYS—PRODUCTION, BY STATES: 1945 TO 1965**

[In thousands of short tons]

STATE	1945	1950	1955	1960	1963	1964	1965
<b>Total.....</b>	<b>54,919</b>	<b>66,400</b>	<b>79,264</b>	<b>68,566</b>	<b>73,715</b>	<b>87,932</b>	<b>90,918</b>
<b>Pig iron.....</b>	<b>53,223</b>	<b>64,587</b>	<b>76,857</b>	<b>66,481</b>	<b>71,844</b>	<b>85,600</b>	<b>88,185</b>
New York <sup>1</sup> .....	3,295	4,302	5,144	4,205	4,273	5,135	6,100
Pennsylvania.....	16,171	18,240	20,844	16,533	17,287	20,974	21,789
Maryland, West Virginia.....	3,519	5,203	6,094	7,987	8,701	10,567	10,875
Kentucky, Tennessee, Texas.....	808	1,460	1,713				
Alabama.....	3,582	4,347	4,924	3,541	3,908	4,313	4,290
Ohio.....	11,259	12,510	15,370	11,788	12,788	15,321	15,407
Indiana.....	5,982	7,018	8,717	8,404	9,924	11,511	11,020
Illinois.....	5,045	6,024	6,489	5,307	4,476	5,672	6,294
Michigan, Minnesota.....	1,921	2,830	4,002	4,981	6,451	7,386	7,533
Colorado, Utah, California.....	1,642	2,653	3,561	3,735	4,036	4,723	4,877
<b>Ferroalloys.....</b>	<b>1,696</b>	<b>1,813</b>	<b>2,406</b>	<b>2,086</b>	<b>1,871</b>	<b>2,332</b>	<b>2,733</b>
New York <sup>2</sup> .....	449	392	309	152	115	75	111
Pennsylvania.....	573	554	590	510	420	572	551
Virginia, West Virginia, South Carolina.....	171	287	464	345	316	445	644
Tennessee.....	66	60					
Ohio.....	204	198	547	658	620	758	785
Other States.....	233	323	497	410	400	482	642

<sup>1</sup> Includes Massachusetts through 1955.

<sup>2</sup> Includes New Jersey through 1955.

Source: American Iron and Steel Institute, New York, N. Y.; *Annual Statistical Report*.

## No. 1185. IRON AND STEEL PRODUCTS—PRODUCTION, BY KIND: 1930 TO 1965

[In thousands of short tons. See *Historical Statistics, Colonial Times to 1957*, series P 208 and P 210-211, for production in long tons for selected items]

KIND	1930	1940	1950	1955	1960	1964	1965
<b>Hot-rolled products</b> .....	33,055	48,660	75,191	90,658	76,446	93,635	99,304
Plates.....	4,102	4,323	7,386	8,191	7,449	9,900	11,404
Sheets.....	3,933	11,706	22,693	31,517	29,815	38,055	39,207
Black plate.....	2,120	522	153	-	-	-	-
Strip.....	2,175	2,078	3,904	3,684	11,549	11,707	11,791
Coils for cold reduced black plate and tin plate.....	(NA)	3,104	5,991	7,579	7,957	7,967	7,803
Hoops.....	89	97	37	16	11	( <sup>1</sup> )	( <sup>1</sup> )
Cotton ties and baling bands.....	52	45	49	64	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Bars—merchant.....	4,628	6,459	9,353	10,123	7,752	9,260	10,078
Bars—concrete reinforcing.....	952	1,426	1,853	2,393	2,358	3,428	3,772
Bars—light shapes.....	562	377	1,063	1,264	1,040	1,035	1,416
Structural shapes—heavy.....	3,372	3,856	4,379	5,072	5,085	5,774	6,225
Steel piling.....	118	186	243	303	286	535	668
Rails.....	2,098	1,679	1,850	1,227	711	701	766
Joint bars and tie plate bars.....	679	516	656	473	173	192	197
Skelp.....	3,004	2,709	4,164	5,144	3,193	3,459	3,600
Blanks or pierced billets.....	1,398	2,321	4,031	4,891	3,546	3,980	4,277
Wire rods.....	2,630	4,352	5,820	6,098	4,265	4,871	5,081
Rolled forging billets.....	341	920	1,215	1,959	927	1,550	1,806
Blooms, billets, etc., for export.....	11	1,678	11	242	-	701	661
Car wheels (rolled steel).....	-	191	260	316	240	323	331
All other.....	790	116	101	101	92	198	221
<b>Miscellaneous products:</b> <sup>2</sup>							
Tin plate and terneplate.....	1,883	2,739	4,640	5,157	5,901	5,422	5,441
Galvanized sheets and strip.....	1,171	1,695	2,274	2,875	3,102	4,425	4,927
Wire (plain).....	(NA)	3,072	4,855	4,787	3,263	3,522	3,805
Wire nails.....	478	649	876	653	847	307	310
Pipes and tubes (black).....	(NA)	4,273	9,310	10,039	7,638	8,211	8,941
Forgings made by rolling mills <sup>3</sup> .....	533	623	457	547	434	619	712
Cold finished bars.....	(NA)	891	1,745	2,074	1,562	1,687	2,011
Sheets (cold rolled).....	(NA)	3,630	10,433	16,855	16,479	19,191	20,733
Strip (cold rolled).....	(NA)	939	2,203	2,496	1,718	2,305	2,235
Galvanized pipe.....	441	708	1,103	1,101	649	643	711

- Represents zero. NA Not available.

<sup>1</sup> Beginning 1960, "Cotton ties and baling bands" included in "Strip"; beginning 1964, "Hoops" also included in "Strip."

<sup>2</sup> These are mostly further elaborations of products listed above.

<sup>3</sup> Includes forged axles.

Source: American Iron and Steel Institute, New York, N.Y.; *Annual Statistical Report*.

## No. 1186. STEEL—PRODUCTION OF INGOTS AND STEEL FOR CASTINGS: 1940 TO 1965

[In thousands of short tons, except index of production, 1957-59=100. Excludes foundries which normally produce only for castings. See *Historical Statistics, Colonial Times to 1957*, series P 203-207, for production in long tons]

YEAR	Total	Index	Open hearth	Bes- semer	Elec- tric	Basic oxygen process	YEAR	Total	Index	Open hearth	Bes- semer	Elec- tric	Basic oxygen process
1940...	66,983	68.8	61,573	3,709	1,701	-	1957...	112,715	116.0	101,658	2,475	7,971	611
1945...	79,702	82.0	71,940	4,305	3,457	-	1958...	85,255	87.8	75,879	1,396	6,656	1,323
1950...	96,836	99.7	86,263	4,535	6,039	-	1959...	93,446	96.2	81,669	1,380	8,533	1,864
1951...	105,200	108.3	93,167	4,891	7,142	-	1960...	99,282	101.9	86,368	1,189	8,379	3,346
1952...	93,168	95.7	82,846	3,524	6,798	-	1961...	98,014	100.9	84,502	881	8,664	3,967
1953...	111,610	114.9	100,474	3,856	7,280	-	1962...	98,328	101.2	82,957	805	9,013	5,553
1954...	88,312	90.9	80,327	2,548	5,436	-	1963...	109,261	112.5	88,834	963	10,920	8,544
1955...	117,036	120.5	105,359	3,320	8,050	307	1964...	127,076	130.5	98,097	858	12,678	15,442
1956...	115,216	118.3	102,841	3,228	8,641	506	1965...	131,462	135.3	94,193	586	13,804	22,870

- Represents zero.

Source: American Iron and Steel Institute, New York, N.Y.; *Annual Statistical Report*.

## No. 1187. STEEL PRODUCTS—NET SHIPMENTS, BY MARKET CLASSES: 1940 TO 1965

[In thousands of short tons. Comprises carbon, alloy, and stainless steel. "N.e.c." means not elsewhere classified]

MARKET CLASSES	1940	1945	1950	1955	1960	1964	1965
<b>Total</b> .....	<b>45,851</b>	<b>57,242</b>	<b>72,232</b>	<b>84,717</b>	<b>71,149</b>	<b>84,945</b>	<b>92,666</b>
Steel for converting and processing.....	1,646	2,706	3,900	3,753	2,928	2,687	3,932
Forgings, n.e.c.....	435	1,418	1,082	1,266	841	1,062	1,250
Bolts, nuts, rivets, and screws.....	708	1,083	1,410	1,475	1,072	1,229	1,234
Steel service centers and distributors.....	6,687	9,571	13,360	15,758	12,480	15,564	16,369
Oil and gas supply houses.....	654	667	1,684	2,196	1,125	1,719	1,556
Other.....	6,033	8,904	11,676	13,562	11,355	13,845	14,813
Construction, including maintenance.....	5,959	6,060	8,602	9,682	9,664	10,992	11,836
Rail transportation.....	150	66	124	75	51	(1)	(1)
Oil and gas.....	991	1,396	3,039	2,448	2,166	2,038	2,308
Other.....	4,818	4,598	5,439	7,159	7,447	8,954	9,528
Contractors' products.....	(2)	(2)	3,075	3,982	3,602	4,646	5,018
Automotive.....	7,325	4,071	14,472	18,722	14,610	18,387	20,123
Vehicles, parts, etc.....	7,185	3,774	13,923	18,203	14,194	17,767	19,423
Forgings.....	140	297	549	519	416	620	700
Rail transportation.....	3,777	5,121	4,299	3,521	2,525	3,469	3,805
Railroad rails, trackwork, and equipment.....	1,202	1,451	2,222	1,580	723	836	930
Freight cars, passenger cars, and locomotives.....	2,575	3,670	2,029	1,901	1,763	2,633	2,875
Street railways and rapid transit systems.....			48	40	39	(3)	(3)
Shipbuilding and marine equipment.....	940	2,719	327	601	622	805	1,051
Aircraft.....	48	301	52	97	78	72	94
Oil and gas drilling.....	(2)	(2)	620	793	404	415	380
Mining, quarrying, and lumbering.....	141	210	289	269	288	368	392
Agricultural.....	920	1,120	1,538	1,337	1,003	1,369	1,483
Agricultural machinery.....	(NA)	(NA)	1,298	1,112	765	1,100	1,169
Other.....	(NA)	(NA)	240	225	238	269	314
Machinery, industrial equipment, and tools.....	1,108	1,607	3,474	4,699	3,958	5,338	5,873
Electrical machinery and equipment.....	777	819	1,837	2,292	2,078	2,654	2,985
Appliances, utensils, and cutlery.....	950	675	2,088	2,199	1,760	2,168	2,179
Other domestic and commercial equipment.....	1,210	1,433	1,804	2,189	1,959	2,084	2,179
Containers, packaging and shipping materials.....	2,985	4,333	5,911	6,723	6,429	6,552	7,331
Cans and closures.....	(NA)	(NA)	4,339	4,947	4,976	5,231	5,867
Barrels, drums, and shipping pails.....	(NA)	(NA)	925	983	842	847	810
Other.....	(NA)	(NA)	647	793	611	474	654
Ordnance and other military.....	(NA)	5,509	195	857	165	214	289
Exports (reporting companies only).....	8,099	3,793	2,567	3,583	2,563	2,749	2,078
Nonclassified shipments.....	2,135	4,693	1,330	919	2,120	2,171	2,785

NA Not available.

<sup>1</sup> Beginning 1964, "Rail transportation" included in "Other."<sup>2</sup> Included in "Construction, including maintenance."<sup>3</sup> Beginning 1964, "Street railways and rapid transit systems" included in "Railroad rails, trackwork, and equipment."Source: American Iron and Steel Institute, New York, N.Y.; *Annual Statistical Report*.

## No. 1188. IRON AND STEEL—AGGREGATE EXPORTS OF SELECTED ITEMS: 1900 TO 1965

[Quantities in thousands of short tons; values in thousands of dollars. Includes exports of Puerto Rico to foreign countries. Includes ferromanganese. Beginning 1925, excludes steam and hot water heating boilers and radiators. Value figures through 1920 exclude, and those beginning 1925 include, data for small items for which quantity figures are not available. Includes shipments under foreign aid programs; beginning 1949 also includes civilian supply shipments. Beginning 1952, quantity figures exclude data for wire cloth and articles for which quantities are not reported]

YEAR	Quantity	Value	YEAR	Quantity	Value	YEAR	Quantity	Value
1900.....	1,292	42,518	1945.....	5,203	461,147	1957.....	13,657	1,622,570
1905.....	1,131	33,813	1949.....	5,146	714,780	1958.....	6,328	1,046,410
1910.....	1,723	63,436	1950.....	3,248	465,141	1959.....	7,009	884,735
1915.....	3,957	140,993	1951.....	3,783	612,236	1960.....	11,493	1,186,585
1920.....	5,527	458,376	1952.....	4,854	771,442	1961.....	12,442	1,140,376
1925.....	1,974	144,262	1953.....	3,711	640,159	1962.....	7,597	946,908
1930.....	2,220	139,039	1954.....	4,826	653,468	1963.....	9,208	1,048,007
1935.....	3,431	88,414	1955.....	9,723	979,357	1964.....	12,051	1,317,119
1940.....	11,876	524,426	1956.....	11,574	1,281,444	1965.....	8,871	1,202,074

Source: Dept. of Commerce, Bureau of the Census; prior to 1947, *Foreign Commerce and Navigation of the United States*; thereafter, *Quarterly Summary of Foreign Commerce of the United States*, and unpublished data.

## No. 1189. FERROUS CASTINGS—SHIPMENTS AND UNFILLED ORDERS: 1950 TO 1965

[In thousands of short tons. Prior to 1962, excludes Alaska and Hawaii. Gray iron castings, except 1950, are based on a sample of foundries; all other data on a complete count]

ITEM	1950	1955	1960	1962	1963	1964	1965 (prel.)
<b>GRAY IRON CASTINGS</b>							
<b>Shipments<sup>1</sup></b> .....	<b>13,725</b>	<b>14,838</b>	<b>11,594</b>	<b>11,553</b>	<b>12,764</b>	<b>14,316</b>	<b>15,695</b>
Pressure pipe and fittings.....	1,215	1,687	1,336	1,351	1,677	1,860	1,876
Soil pipe and fittings.....	795	870	782	888	913	940	958
All other gray iron castings.....	11,715	12,281	9,476	9,313	10,174	11,516	12,861
<b>Unfilled orders, Dec. 31<sup>2</sup></b> .....	<b>2,142</b>	<b>1,075</b>	<b>553</b>	<b>693</b>	<b>719</b>	<b>855</b>	<b>875</b>
Pressure pipe and fittings.....	617	277	146	205	201	198	214
Soil pipe and fittings.....	208	27	16	12	11	14	18
All other gray iron castings.....	1,317	771	391	476	507	643	643
<b>MALLEABLE IRON CASTINGS</b>							
<b>Shipments</b> .....	<b>942</b>	<b>1,105</b>	<b>821</b>	<b>868</b>	<b>933</b>	<b>1,001</b>	<b>1,137</b>
For sale.....	537	653	467	868	523	589	649
For own use.....	405	452	354		410	413	488
Standard malleable.....	(NA)	(NA)	632	643	691	736	828
Pearlitic malleable.....	(NA)	(NA)	189	225	242	265	309
<b>Unfilled orders, Dec. 31<sup>2</sup></b> .....	<b>222</b>	<b>123</b>	<b>55</b>	<b>81</b>	<b>88</b>	<b>122</b>	<b>174</b>
Standard malleable.....	(NA)	(NA)	41	59	68	92	132
Pearlitic malleable.....	(NA)	(NA)	13	22	19	30	42
<b>STEEL CASTINGS</b>							
<b>Shipments<sup>1</sup></b> .....	<b>1,481</b>	<b>1,531</b>	<b>1,392</b>	<b>1,395</b>	<b>1,504</b>	<b>1,835</b>	<b>1,960</b>
Carbon.....	1,130	1,088	1,016	965	1,030	1,305	1,378
Alloy.....	351	443	376	430	474	530	582
<b>Unfilled orders, Dec. 31<sup>2</sup></b> .....	<b>570</b>	<b>475</b>	<b>163</b>	<b>181</b>	<b>262</b>	<b>337</b>	<b>435</b>
Carbon.....	476	364	125	127	200	264	325
Alloy.....	94	111	38	54	62	73	110

NA Not available. <sup>1</sup> Includes shipments "for own use."

<sup>2</sup> Unfilled orders "for sale" only. Excludes unfilled orders of captive plants.

Source: Dept. of Commerce, Bureau of the Census. Monthly data in *Current Industrial Reports*, Series M33A and M33-1.

## No. 1190. COPPER-BASE MILL AND FOUNDRY PRODUCTS—SHIPMENTS: 1950 TO 1965

[In millions of pounds, metal weight. Excludes Alaska and Hawaii]

TYPE OF PRODUCT	1950	1955	1960	1961	1962	1963	1964	1965 (prel.)
<b>Total</b> .....	<b>5,037</b>	<b>5,130</b>	<b>4,298</b>	<b>4,510</b>	<b>4,956</b>	<b>5,184</b>	<b>5,899</b>	<b>6,288</b>
Brass mill products.....	2,554	2,532	1,878	2,068	2,357	2,465	2,787	2,974
Alloyed <sup>1</sup> .....	1,663	1,644	1,128	1,220	1,353	1,372	1,566	1,711
Unalloyed.....	890	888	750	848	1,004	1,093	1,221	1,263
Copper wire mill products <sup>2</sup> .....	1,427	1,556	1,521	1,554	1,636	1,711	1,992	2,177
Brass and bronze foundry products.....	1,057	999	862	848	916	957	1,063	1,075
Copper-base powder mill products.....	(NA)	43	39	40	47	51	57	62

NA Not available.

<sup>1</sup> Excludes webbing scrap generated in production of military ammunition cups and discs. <sup>2</sup> Copper content.

Source: Dept. of Commerce, Bureau of the Census and Business and Defense Services Administration; *Copper Industry Report, 1964*, and *Current Industrial Reports*, Series BDSAF-84(65)-4.

## No. 1191. ALUMINUM AND MAGNESIUM MILL PRODUCTS—NET SHIPMENTS: 1950 TO 1965

[In millions of pounds. Prior to 1962, excludes Alaska and Hawaii. Producers' net shipments consist of total shipments less shipments to other metal mills for further fabrication into other forms of mill products]

ITEM	1950	1955	1960	1962	1963	1964	1965 (prel.)
<b>Aluminum mill products</b> .....	<b>1,713</b>	<b>2,792</b>	<b>3,049</b>	<b>3,811</b>	<b>4,257</b>	<b>4,834</b>	<b>5,688</b>
Plate, sheet, and foil.....	1,163	1,543	1,637	2,008	2,318	2,630	3,014
Rolled structural shapes, rod, bar and wire.....	270	368	392	521	541	622	801
Extruded shapes, and tubing.....	258	775	937	1,158	1,270	1,447	1,719
Powder, flake and paste.....	22	36	33	44	45	46	59
Forgings.....	( <sup>1</sup> )	70	50	79	84	88	95
<b>Magnesium mill products</b> .....	<b>13</b>	<b>21</b>	<b>21</b>	<b>26</b>	<b>25</b>	<b>23</b>	<b>25</b>

<sup>1</sup> Forgings included with rolled rod and bar.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M33-2 and M33G.

# No. 1192. NONFERROUS CASTINGS—SHIPMENTS AND UNFILLED ORDERS: 1950 TO 1965

[In thousands of pounds. Prior to 1960, excludes Alaska and Hawaii. Shipments include "for own use." Unfilled orders are for the end of the year and comprise "for sale" only. Data for 1950 based on complete coverage; other years based on sample and subject to sampling variation; see text, pp. 763-765]

ITEM	1950	1955	1960	1963	1964 (prel.)	1965 (prel.)
Shipments, all types.....	2,215,588	2,663,031	2,201,127	2,926,256	3,123,000	3,416,713
Unfilled orders, all types.....	303,305	273,698	148,414	178,959	191,568	239,127
Copper and copper-base alloy:						
Shipments.....	1,056,973	1,008,898	750,658	852,371	891,079	910,912
Unfilled orders.....	73,940	57,241	21,914	22,577	20,984	30,902
Aluminum and aluminum-base alloy:						
Shipments.....	543,082	827,162	774,548	1,207,184	1,253,663	1,408,950
Unfilled orders.....	113,300	123,881	71,398	93,478	98,122	125,576
Zinc and zinc-base alloy:						
Shipments.....	579,332	778,000	622,713	803,632	915,529	1,064,549
Unfilled orders.....	106,885	86,120	51,516	59,921	69,430	71,451
Magnesium and magnesium-base alloy:						
Shipments.....	15,224	27,854	23,530	33,171	32,296	32,293
Unfilled orders.....	7,654	5,981	3,156	2,983	3,032	11,198
Lead and lead-base alloy die: <sup>1</sup>						
Shipments.....	20,977	21,117	20,678	29,898	30,433	(NA)
Unfilled orders.....	1,526	475	430	(NA)	533	(NA)

NA Not available.

<sup>1</sup> Excludes producers of lead die castings for battery plates and parts; they reported shipments of 146 million pounds in 1950.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M33E.

# No. 1193. ELECTRICAL MACHINERY AND RELATED PRODUCTS—VALUE OF SHIPMENTS: 1947 TO 1964

[In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Figures for 1950 and 1955 are based on sample and subject to sampling variation; see Technical Note, p. 765. "N.e.c." means not elsewhere classified]

PRODUCT	1947	1950	1955	1960	1962	1963	1964
Carbon and graphite products.....	69	100	152	187	194	216	244
Electric lamps (bulbs).....	192	243	337	490	508	549	576
Electrical appliances:							
Electric fans (except industrial type).....	49	60	75	76	84	103	114
Household water heaters.....	60	64	49	50	52	61	66
Small household electric appliances (except fans) <sup>1</sup> .....	249	306	426	471	586	562	609
Household ranges and parts.....	132	218	224	240	261	284	295
Electrical equipment for internal combustion engines.....	337	437	700	772	840	899	910
Electrical hearing aids.....	17	23	32	49	48	35	37
Electrical measuring instruments.....	156	150	399	795	889	758	786
Electrical welding apparatus.....	108	110	212	283	286	318	374
Electronic tubes:							
Transmitting and industrial type tubes, except X-ray tubes.....	25	(S)	181	256	338	285	252
Radio and TV receiving-type tubes, except cathode ray.....	87	198	359	307	278	282	259
Cathode ray tubes (TV receiver type).....	7	(S)	205	213	222	249	291
Motors and generators.....	856	888	1,342	1,486	1,530	1,519	1,615
Phonograph records.....	102	85	80	149	187	178	214
Primary batteries (dry and wet) including parts and supplies.....	78	95	121	153	197	190	204
Radios and related products:							
Household radio receivers, television sets, radio phonographs, phonographs, and record players.....	810	1,687	1,508	1,223	1,399	1,538	1,805
Commercial radio communications, radio navigation aids, and broadcast equipment.....	225	269	1,167	2,347	3,800	4,091	3,096
Electronic components and accessories, n.e.c. <sup>2</sup> .....	349	697	1,061	2,163	2,758	2,422	2,369
Storage batteries.....	293	319	365	405	437	477	516
Switchgear and switchboard apparatus.....	361	332	663	898	905	1,006	1,083
Transformers.....	327	405	623	724	670	681	778
Wiring devices and supplies.....	376	492	698	939	1,142	943	1,045
X-ray and therapeutic apparatus <sup>3</sup> .....	58	48	(S)	88	104	109	116

S Withheld because the estimate did not meet publication standards.

<sup>1</sup> Prior to 1960, includes dry shavers (electric razors) and soldering irons.

<sup>2</sup> Prior to 1960, excludes solid state semi-conductor devices, electron tube parts, and phonograph needles and includes loudspeakers, speaker systems and horns, microphones, chassis for home-type radio and TV receivers, and connectors for electronic application.

<sup>3</sup> Includes X-ray accessories and dental and industrial X-ray components and assemblies.

Source: Dept. of Commerce, Bureau of the Census; *Annual Survey of Manufactures, U.S. Census of Manufactures and Current Industrial Reports*.



# No. 1194. MANUFACTURERS' SALES AND RETAIL VALUE OF HOME APPLIANCES: 1950 TO 1965

[Compiled from reports of associations and manufacturers. Sales include exports. Except as noted, covers electric appliances only]

PRODUCT	SALES (1,000 units)					RETAIL VALUE (mil. dol.)				
	1950	1955	1960	1964	1965	1950	1955	1960	1964	1965
<b>Home laundry</b> .....	4,591	5,788	4,775	6,045	6,567	855	1,341	1,148	1,314	1,398
Dryers, clothes.....	319	1,897	1,260	1,826	2,098	70	309	261	320	366
Electric.....	251	1,028	818	1,194	1,388	53	217	160	203	235
Gas.....	68	369	442	632	710	17	92	102	117	130
Washing machines.....	4,273	4,391	3,384	4,190	4,430	785	1,032	817	981	1,015
Automatic and semi-automatic.....	1,646	3,123	2,601	3,541	3,771	423	845	697	882	917
Wringer and spinner.....	2,626	1,268	763	649	659	361	187	120	99	98
Washer-drier combinations.....	-	(NA)	151	29	39	-	(NA)	70	13	18
<b>Other major appliances</b> .....	15,848	13,697	12,526	15,864	16,735	2,557	2,977	2,665	2,877	3,089
Dishwashers.....	230	295	555	1,050	1,260	67	90	142	232	276
Food waste disposers.....	320	520	760	1,300	1,360	43	60	61	78	82
Freezers.....	890	1,100	1,045	1,110	1,160	289	440	308	261	271
Ranges, electric.....	1,830	1,600	1,495	1,965	2,065	425	424	412	429	446
Ranges, gas.....	3,023	2,334	1,814	2,170	2,251	(NA)	303	271	403	431
Refrigerators, electric.....	6,200	4,200	3,475	4,545	4,930	1,602	1,323	1,129	1,173	1,282
Water heaters, electric.....	990	900	715	1,000	1,095	131	104	75	83	92
Water heaters, gas.....	2,365	2,748	2,666	2,724	2,614	(NA)	234	267	218	209
<b>Electric housewares</b> .....	32,234	38,170	43,362	65,573	55,068	733	856	949	1,219	1,193
Bed coverings.....	800	1,460	3,335	5,100	4,650	32	45	77	84	79
Can openers, and can opener-knife sharpeners.....	(NA)	(NA)	1,200	3,900	4,300	(NA)	(NA)	28	56	62
Clocks.....	8,100	7,200	8,300	12,000	(NA)	54	50	58	102	(NA)
Coffee makers, automatic.....	900	3,675	4,695	6,530	6,200	25	72	94	109	98
Corn poppers.....	(NA)	780	780	1,040	1,160	(NA)	4	4	6	7
Frypan skillets.....	1,500	2,660	2,455	2,480	2,650	112	51	44	51	56
Griddles, automatic.....	(NA)	(NA)	275	230	270	(NA)	(NA)	6	5	6
Hair dryers, with bonnets.....	(NA)	(NA)	(NA)	5,150	4,325	-	(NA)	(NA)	88	278
Heating pads.....	1,725	1,980	2,575	2,715	2,980	12	12	15	14	15
Hotplates and buffet ranges.....	1,160	950	565	735	710	9	7	5	6	6
Irons.....	6,880	7,930	6,410	9,675	9,860	98	113	92	134	139
Steam and steam/spray.....	1,645	4,995	4,440	7,700	7,950	30	84	73	117	123
Other.....	5,235	2,935	1,970	1,975	1,910	68	29	18	17	16
Mixers, food, and blenders.....	2,070	3,645	3,700	4,970	5,675	78	118	89	100	104
Polishers, floor.....	240	375	1,024	1,191	1,181	14	20	44	48	47
Sharpeners, knife.....	(NA)	(NA)	565	330	275	(NA)	(NA)	8	4	3
Toasters, automatic.....	3,795	3,250	3,345	4,100	4,750	76	59	60	64	74
Vacuum cleaners.....	3,529	3,270	3,313	4,507	5,107	280	286	311	329	398
Waffle irons and sandwich grills.....	2,535	995	825	920	975	43	19	16	19	21
<b>Heating and cooling</b> .....	4,581	8,107	7,857	12,664	12,570	164	622	671	908	925
Air conditioners, room.....	201	1,276	1,580	2,755	2,945	63	383	435	592	626
Dehumidifiers.....	45	96	375	205	210	6	12	40	16	16
Fans.....	3,220	5,585	4,672	7,641	8,000	79	203	170	266	260
Desk and bracket.....	2,450	2,525	1,200	1,051	1,120	42	50	23	25	25
Kitchen exhaust, built-in.....	495	860	1,020	1,284	1,420	18	30	31	27	28
Range hood.....	-	-	610	1,953	2,220	-	-	34	101	107
Window ventilating.....	-	1,645	1,337	2,728	2,380	-	82	57	95	77
Other.....	275	555	505	625	860	19	41	26	18	23
Heaters.....	1,115	1,150	1,230	2,063	1,415	15	24	27	34	23
Fan-forced and fan htr. portable.....	-	880	945	1,561	1,100	-	17	21	26	18
Non-fan-forced portable.....	1,115	270	285	502	315	15	6	6	8	5
<b>Consumer electronics</b> .....	17,313	17,653	20,736	25,373	31,314	2,669	1,978	2,168	2,987	3,999
Phonographs, production <sup>3</sup> .....	(NA)	2,627	4,333	4,941	6,221	(NA)	(NA)	585	593	792
Table and portable.....	(NA)	2,098	2,958	3,277	4,420	(NA)	(NA)	(NA)	(NA)	270
Console and radio-phonograph combinations.....	(NA)	529	1,375	1,664	1,801	(NA)	(NA)	(NA)	(NA)	522
Radios, production.....	9,849	7,269	10,695	10,882	14,056	434	233	314	277	301
Table and clock radios.....	4,817	5,242	6,160	6,504	8,031	4383	162	155	163	187
Portable radios.....	1,675	2,028	4,535	4,358	6,025	51	71	159	114	114
Television, bl. and w., production.....	7,464	7,767	5,708	8,107	8,391	2,235	1,745	1,269	1,311	1,331
Table and portable.....	2,942	4,440	3,274	6,260	6,967	(NA)	(NA)	589	877	975
Console.....	3,820	3,200	2,211	1,637	1,315	(NA)	(NA)	579	352	329
Phono and/or radio combinations.....	-	117	223	210	109	(NA)	(NA)	101	82	27
Television, color, production.....	702	(NA)	(NA)	1,463	2,646	-	(NA)	(NA)	806	1,575
<b>Other appliances:</b>										
Lawn mowers, power.....	1,080	2,750	3,800	4,100	4,500	100	237	352	374	422
Water softeners.....	(NA)	(NA)	(NA)	389	420	(NA)	(NA)	(NA)	119	137
<b>Lamp bulbs and tubes<sup>4</sup></b> .....	2,007	2,479	2,921	2,928	3,242	466	724	1,110	1,275	1,428
Fluorescent.....	88	95	132	197	218	96	145	238	325	382
Large incandescent.....	934	1,009	1,170	1,275	1,289	205	300	465	523	541
Photo.....	229	525	517	764	935	37	79	97	137	168
Other.....	756	880	1,102	662	800	129	200	311	290	337

<sup>3</sup> - Represents zero. NA Not available.

<sup>4</sup> For 1950 and 1955, represents factory sales.

<sup>5</sup> Excludes Christmas tree bulbs.

<sup>1</sup> Fryers only. <sup>2</sup> Includes salon-type dryers.

<sup>3</sup> Table radios only. <sup>4</sup> In millions of units.

## No. 1195. EXPORTS OF ELECTRIC HOME APPLIANCES—NUMBER: 1940 TO 1965

[In thousands. Includes exports of Puerto Rico to foreign countries. Includes shipments under foreign aid programs; beginning 1950, also includes civilian supply shipments]

PRODUCT	1940	1945	1950	1955	1960	1962	1963	1964	1965
Vacuum cleaners.....	10	1	20	69	103	88	89	127	157
Clocks.....	87	27	315	212	124	170	225	261	369
Irons.....	163	54	241	170	225	302	232	287	296
Radios and televisions.....	558	39	423	388	322	528	457	700	559
Refrigerators <sup>1</sup> .....	102	7	200	361	282	218	187	200	185
Washing machines.....	30	1	53	83	95	89	81	104	86
Ranges.....	7	1	6	34	10	9	10	14	14

<sup>1</sup> Includes home freezers in 1950; beginning 1955, also includes farm freezers.

Source: Dept. of Commerce, Bureau of the Census; 1940 and 1945, *Foreign Commerce and Navigation of the United States*; thereafter, *Quarterly Summary of Foreign Commerce of the United States*, and unpublished data.

## No. 1196. MACHINERY (EXCEPT ELECTRICAL)—VALUE OF SHIPMENTS: 1947 TO 1964

In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Figures for 1950 through 1962, and 1964 based on sample and subject to sampling variation; see Technical Note, p. 765. "N.e.c." means not elsewhere classified]

CLASS OF PRODUCT	1947	1950	1955	1960	1962	1963	1964
Ball and roller bearings and components.....	353	450	674	836	938	959	1,087
Commercial laundry, dry-cleaning, and pressing machines <sup>1</sup> .....	93	77	87	120	135	130	148
Computing machines and cash registers <sup>1</sup> .....	302	350	582	1,324	1,593	1,701	1,826
Construction machinery, except tractors.....	932	974	1,456	1,451	1,582	1,859	1,942
Mining machinery.....	241	419	338	338	268	338	377
Conveyors.....	234	241	419	367	374	411	436
Metal cutting tools, jigs, fixtures, etc.....	675	836	(S)	2,286	2,452	2,138	2,653
Domestic laundry equipment.....	434	532	733	695	693	760	806
Elevators and moving stairways <sup>1</sup> .....	96	102	131	205	232	248	272
Fabricated pipe and fittings made from purchased pipe.....	110	(S)	210	224	249	288	309
Farm machinery (except tractors).....	844	1,052	1,128	1,449	1,582	1,732	1,898
Food-products machinery.....	335	324	383	462	501	507	581
Heat exchangers and steam condensers.....	53	77	124	146	127	158	189
Household mechanical refrigerators, incl. electric and gas.....	515	925	713	624	631	688	743
Industrial fans and blowers, including parts.....	130	130	274	269	289	301	323
Industrial furnaces and ovens.....	85	72	159	215	193	248	283
Industrial trucks, tractors, trailers, and stackers <sup>1</sup> .....	167	166	312	389	394	459	562
Internal combustion engines, exc. automotive and aircraft <sup>2</sup> .....	617	(NA)	(NA)	1,215	1,324	1,414	1,564
Mechanical power-transmission equipment.....	426	464	700	711	804	848	944
Mechanical stokers <sup>1</sup> .....	36	19	16	(NA)	10	10	(NA)
Metal-forming machine tools.....	185	155	295	379	391	427	486
Office and store machines, n.e.c.....	179	208	271	247	283	280	296
Oil and gas field machinery and tools, incl. drilling equipment.....	263	333	647	507	550	563	643
Paper-industries machinery <sup>1</sup> .....	135	115	207	348	370	346	378
Printing-trades machinery and equipment <sup>1</sup> .....	191	201	248	350	395	397	431
Pumps and compressors.....	520	504	924	1,107	1,147	1,246	1,360
Scales and balances <sup>1</sup> .....	51	53	67	66	70	90	92
Sewing machines <sup>1</sup> .....	97	171	126	130	121	104	106
Small cutting tools for machine tools and metalworking machinery.....	205	232	369	401	467	470	517
Steam engines and turbines.....	119	223	380	623	552	573	607
Textile machinery <sup>1</sup> .....	380	429	384	494	532	498	559
Tractors <sup>1</sup> .....	744	1,098	1,331	1,142	1,344	1,457	1,677
Typewriters <sup>1</sup> .....	140	130	164	209	247	260	287
Vacuum cleaners.....	151	167	176	161	174	183	193
Valves and fittings (except plumbing).....	549	712	1,087	1,302	1,464	1,610	1,612
Woodworking machinery.....	151	137	185	176	203	219	248

NA Not available. S Withheld because the estimate did not meet publication standards.

<sup>1</sup> Includes parts and attachments. <sup>2</sup> Represents shipments to other companies only.

<sup>3</sup> Includes parts and attachments (except cases and cabinets, and sewing machine needles).

Source: Dept. of Commerce, Bureau of the Census; *Annual Survey of Manufactures, U.S. Census of Manufactures and Current Industrial Reports*.

# No. 1197. AIR-CONDITIONING AND REFRIGERATION EQUIPMENT—SHIPMENTS: 1950 TO 1964

[Value in thousands of dollars. Prior to 1960, excludes Alaska and Hawaii. Represents manufacturers' billing prices for units actually billed and shipped]

PRODUCT	1950		1955		1960		1964	
	Number	Value	Number	Value	Number	Value	Number	Value
Condensing units <sup>1</sup> .....	885,668	75,481	589,251	70,913	635,630	62,573	658,388	72,064
Air-cooled.....	835,239	59,035	523,200	46,050	596,518	46,516	626,290	59,559
Water-cooled.....	50,429	16,446	66,051	24,863	39,112	16,057	32,098	13,405
Compressors and compressor units <sup>1</sup> .....	954,368	46,977	2,554,031	116,917	4,427,414	211,392	7,479,761	297,935
Centrifugal-refrigeration systems.....	382	12,249	818	25,732	1,422	37,924	2,491	50,945
Heat-transfer equipment.....	(X)	61,337	(X)	114,064	(X)	150,643	(X)	194,156
Evaporative condensers.....	7,818	8,869	5,883	9,597	4,209	8,944	3,168	7,534
Unit coolers.....	133,300	24,588	97,034	15,053	133,096	16,207	129,656	20,667
Other heat-exchanger equipment.....	(X)	27,880	(X)	89,414	(X)	125,492	(X)	165,955
Packaged air-conditioning equipment.....	(X)	(NA)	(X)	369,862	(X)	498,278	(X)	723,399
Ice-making machines.....	14,914	8,907	31,521	16,369	55,466	28,974	67,500	35,342

NA Not available. X Not applicable.

<sup>1</sup> Excludes units for ammonia refrigerants and, prior to 1964, household refrigerators.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M35M.

# No. 1198. MACHINE TOOLS (METAL CUTTING AND METAL FORMING)—SHIPMENTS, BY MAJOR TYPES: 1955 TO 1964

[Value in millions of dollars. 1955, excludes Alaska and Hawaii. Includes light type machine tools, particularly in drilling machines, lathes, grinding and polishing machines, and milling machines. Excludes machine tools specifically designed for home workshops, model makers, garages, and service shops]

MAJOR TYPE	1955		1960		1963		1964	
	Number	Value	Number	Value	Number	Value	Number	Value
Total.....	(NA)	961	(NA)	778	198,597	967	212,195	1,207
Metal cutting type.....	(NA)	666	(NA)	539	139,922	658	153,831	874
Boring machines.....	2,122	77	1,523	47	1,750	68	1,718	74
Broaching machines.....	395	14	176	6	( <sup>1</sup> )	( <sup>1</sup> )	223	12
Drilling machines.....	(NA)	54	22,175	39	24,358	52	26,222	72
Gear cutting and finishing machines.....	1,749	37	1,243	34	1,371	40	1,372	47
Grinding and polishing machines (excl. gear tooth grinding, honing, lapping, and buffing).....	60,763	124	53,360	117	52,446	136	57,819	176
Lathes.....	23,266	153	18,176	135	19,656	155	21,320	198
Milling machines.....	11,665	90	14,115	79	16,683	106	17,153	126
Planers.....	120	8	41	3	( <sup>1</sup> )	( <sup>1</sup> )	29	2
Shapers (except gear shapers).....	703	5	543	3	515	2	436	2
All other metal cutting machine tools.....	(NA)	105	(NA)	75	23,143	99	27,539	165
Metal forming type.....	(NA)	295	(NA)	238	58,675	310	58,364	333
Presses, including forging (power).....	20,712	171	12,529	105	16,867	134	17,242	167
Presses, manual.....	(NA)	(NA)	10,410	1	11,696	2	11,108	3
Forging machines (except presses).....	985	16	682	21	825	22	670	23
Punching and shearing machines, power.....	3,956	28	5,907	33	8,501	43	5,734	33
Punching and shearing machines, manual.....	4,424	1						
Bending and forming machines, power.....	6,814	33	13,227	34	13,026	45	15,929	43
Bending and forming machines, manual.....	13,811	3						
Riveting machines.....	4,849	6	2,269	4	2,208	4	3,010	6
Metal container making machines.....	1,503	18	1,255	17	1,169	21	746	12
Die casting machines.....	334	9	181	6	261	12	261	14
Wire weaving and wire fabricating machines.....	876	5	659	4	1,542	13	1,414	11
Drawing machines and draw benches.....	414	6	390	11	327	8	567	11
All other metal forming machine tools.....	(NA)	(NA)	2,122	3	2,253	6	1,683	10

NA Not available. <sup>1</sup> Included with "All other metal cutting machine tools."

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M35W.

**NO. 1199. FARM MACHINES AND EQUIPMENT—SHIPMENTS, BY CLASS: 1947 TO 1964**  
 [In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Excludes tractors]

CLASS	1947	1950	1955	1960	1962	1963	1964
<b>Total</b> .....	<b>758</b>	<b>1,002</b>	<b>912</b>	<b>1,001</b>	<b>1,045</b>	<b>1,187</b>	<b>1,287</b>
Farm machines and equipment (complete units).....	584	817	727	798	832	948	1,047
Attachments and parts.....	175	185	185	203	213	239	240
COMPLETE UNITS, ATTACHMENTS, AND PARTS							
Plows and listers.....	84	100	66	61	65	77	88
Harrows, rollers, pulverizers, and stalk cutters.....	57	78	75	86	98	115	128
Planting, seeding, and fertilizing machinery.....	74	113	89	98	102	112	129
Cultivators and weedeers.....	50	57	53	51	52	60	65
Sprayers and dusters.....	40	37	38	45	46	49	48
Harvesting machinery.....	192	288	244	324	319	386	438
Haying machinery.....	95	155	168	140	126	132	134
Machines for preparing crops for market or for use.....	42	31	33	38	44	53	48
Farm poultry equipment.....	21	30	28	29	32	43	41
Farm dairy machines and equipment.....	31	23	19	20	24	17	26
Hog equipment.....	21	29	30	44	63	67	13
Other barn and barnyard equipment.....							48
Farm elevators and blowers.....	16	35	38	28	29	28	30
Farm wagons, trucks, and other farm transportation equipment.....	36	26	29	37	45	48	51

<sup>1</sup> Excludes pipeline milker units.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M35A.

**NO. 1200. TRACTORS AND TRACTOR ATTACHMENTS AND PARTS—DOMESTIC SHIPMENTS AND EXPORTS, BY TYPE: 1950 TO 1964**  
 [Value in thousands of dollars. Prior to 1960, excludes Alaska and Hawaii]

YEAR AND TYPE	Total value	COMPLETE UNITS				VALUE OF ATTACHMENTS AND PARTS	
		Domestic		Exports		Domestic	Exports
		Number	Value	Number	Value		
<b>Total:</b> .....	(NA)	604,686	649,972	93,658	170,059	(NA)	(NA)
1950.....	(NA)	571,983	1,964,832	( <sup>1</sup> )	( <sup>1</sup> )	(NA)	(NA)
1955.....	1,332,646	565,655	611,044	50,385	250,069	379,928	91,605
1960.....	(S)	528,646	917,123	61,403	287,432	(S)	(S)
1963.....	(S)	593,702	1,031,464	70,750	386,916	(S)	(S)
1964.....	(S)						
Contractors' off-highway wheel tractors:							
1950.....	(NA)	1,417	17,135	648	7,634	(NA)	(NA)
1955.....	(NA)	1,4,021	162,658	( <sup>1</sup> )	( <sup>1</sup> )	(NA)	(NA)
1960.....	90,076	1,950	42,235	1,128	22,730	16,079	9,032
1963.....	(S)	2,373	64,344	1,223	27,502	(S)	(S)
1964.....	(S)	3,026	79,786	1,408	32,370	(S)	(S)
Other wheel tractors:							
1950.....	(NA)	424,398	461,103	73,454	88,423	(NA)	(NA)
1955.....	641,195	286,170	449,869	40,277	68,862	107,980	14,484
1960.....	511,247	137,184	307,785	18,857	49,773	142,765	10,924
1963.....	770,676	177,239	517,876	27,731	85,703	147,358	19,739
1964.....	823,084	169,827	551,315	34,383	127,857	130,071	13,841
Tracklaying: <sup>2</sup>							
1950.....	360,437	29,167	150,205	15,433	73,282	97,115	39,835
1955.....	566,784	31,036	225,831	17,855	133,612	(NA)	(NA)
1960.....	495,156	14,462	144,817	9,998	125,014	166,755	58,870
1963.....	531,291	14,819	199,396	7,748	114,979	142,883	74,033
1964.....	646,036	16,180	237,085	10,716	155,499	159,327	94,125
Tracklaying tractor-shovel loaders:							
1950.....	176,664	8,300	72,281	4,398	50,798	41,309	12,276
1955.....	214,777	7,141	83,450	4,362	56,705	174,622	( <sup>1</sup> )
1963.....	214,684	7,279	86,672	5,147	68,251	159,761	( <sup>1</sup> )
1964.....							
Garden: <sup>3</sup>							
1950.....	32,460	149,704	21,529	4,123	720	9,857	354
1955.....	36,738	187,724	23,237	4,900	763	12,080	658
1960.....	59,503	403,769	43,926	16,004	1,754	13,020	803
1963.....	75,047	327,074	52,057	20,339	2,543	19,271	1,176
1964.....	104,508	397,390	76,606	19,096	2,939	23,626	1,337

NA Not available. S Suppressed because data did not meet publication standards.

<sup>1</sup> Exports included with domestic shipments.

<sup>2</sup> Prior to 1960, includes tractors produced as integral units of tractor-shovel loaders.

<sup>3</sup> Includes motor tillers. Beginning 1960, tractor-shovel loaders are shown separately.

Source: Dept. of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M35A, M35D, and M35S.